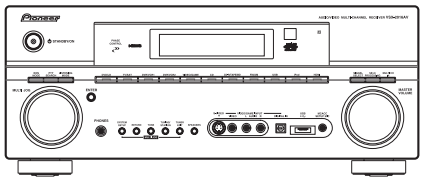
Pioneer sound.vision.soul

Service Manual



VSX-2016AV-S

ORDER NO.
RRV3397

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-2016AV-S
VSX-81TXV
VSX-81TXV-S
VSX-9110TXV-K

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
VSX-2016AV-S	HYXJ5	AC 220 V to 230 V	
VSX-81TXV	KUXJCA	AC 120 V	
VSX-81TXV-S	KUXJCA	AC 120 V	
VSX-9110TXV-K	KUXJ	AC 120 V	

For details, refer to "Important Check Points for good servicing".

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PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936
ⓒ**PIONEER CORPORATION 2006**

T-IZS SEPT. 2006 printed in Japan

SAFETY INFORMATION

This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING
This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

NOTICE
(FOR CANADIAN MODEL ONLY)
Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE
(POUR MODÈLE CANADIEN SEULEMENT)
Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

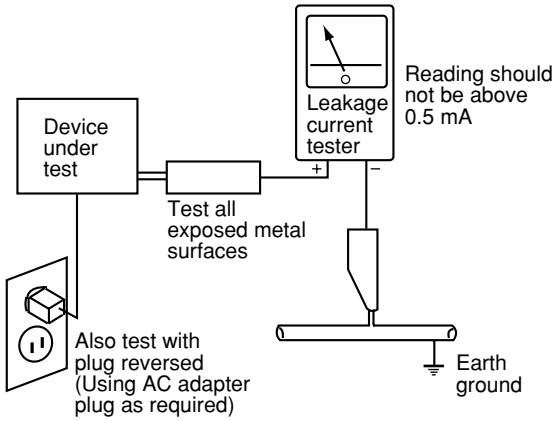
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.


Reading should not be above 0.5 mA
Leakage current tester
Device under test
+
–
Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol.
Please be sure to confirm and follow these procedures.

1. Product safety

Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris.
Soldering should be finished with the proper quantity. (Refer to the example)

④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs.
In addition, be sure that there are no pinched wires, etc.

⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages.
If you find a damaged power cord, please exchange it with a suitable one.

⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries.
Please pay attention to your surroundings and repair safely.

2. Adjustments

To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification.
Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts

Use grease and adhesives that are equal to the specified substance.
Make sure the proper amount is applied.

4. Cleaning

For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws

To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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1. SPECIFICATIONS

■ For VSX-2016AV-S

Amplifier section

Continuous Power Output (Stereo)
Front . . . . . 150 W + 150 W (DIN 1 kHz, THD 1 %, 6 Ω)
120 W + 120 W (DIN 1 kHz, THD 1 %, 8 Ω)
Continuous Power Output (Multichannel)
Front . . . . . 150 W + 150 W (DIN 1 kHz, THD 1 %, 6 Ω)
120 W + 120 W (DIN 1 kHz, THD 1 %, 8 Ω)
Center . . . . . 150 W (DIN 1 kHz, THD 1 %, 6 Ω)
120 W (DIN 1 kHz, THD 1 %, 8 Ω)
Surround . . 150 W + 150 W (DIN 1 kHz, THD 1 %, 6 Ω)
120 W + 120 W (DIN 1 kHz, THD 1 %, 8 Ω)
Surround back
. . . . . 150 W + 150 W (DIN 1 kHz, THD 1 %, 6 Ω)
120 W + 120 W (DIN 1 kHz, THD 1 %, 8 Ω)
Rated Power Output. . . . . 130 W+130 W
(20 Hz to 20 kHz, 0.09 %, 6 Ω)
Rated Power Output. . . . . 110 W+110 W
(20 Hz to 20 kHz, 0.09 %, 8 Ω)

• The above specifications are applicable when the power supply is 230 V.

Audio Section

Input (Sensitivity/Impedance)
LINE . . . . . 335 mV/47 kΩ
Frequency Response (LINE) . . 5 Hz to 100 000 Hz $^{+0}_{-3}$ dB
Output (Level/Impedance)
REC . . . . . 335 mV/2.2 kΩ
Tone Control
BASS . . . . . ± 6 dB (100 Hz)
TREBLE . . . . . ± 6 dB (10 kHz)
LOUDNESS . . . . . +4 dB / +2 dB (100Hz/10 kHz)
(at volume position -40 dB)
Signal-to-Noise Ratio (IHF, short circuited, A network)
LINE . . . . . 103 dB
Signal-to-Noise Ratio
[DIN (continuous rated power output/50mW)]
LINE . . . . . 92 dB / 65 dB

Composite Video / S-Video Section

Input (Sensitivity/Impedance) . . . . . 1 Vp-p/75 Ω
Output (Level/Impedance) . . . . . 1 Vp-p/75 Ω
Signal-to-Noise Ratio . . . . . 65 dB
Frequency Response . . . . . 5 Hz to 10 MHz

Component Video Section

Input (Sensitivity/Impedance) . . . . . 1 Vp-p/75 Ω
Output (Level/Impedance) . . . . . 1 Vp-p/75 Ω
Signal-to-Noise Ratio . . . . . 65 dB
Frequency Response . . . . . 5 Hz to 100 MHz

FM Tuner Section

Frequency Range . . . . . 87.5 MHz to 108 MHz
Usable Sensitivity . . . . . Mono: 15.2 dBf, IHF (1.6 μV/75 Ω)
50 dB Quieting Sensitivity . . . . . Mono: 20.2 dBf
Stereo: 41.2 dBf
Sensitivity (DIN) . . . . . Mono: 1.1 μV (S/N 26 dB)
Stereo: 50 μV (S/N 46 dB)
Signal-to-Noise Ratio . . . . . Mono: 76 dB (at 85 dBf)
Stereo: 72 dB (at 85 dBf)
Signal-to-Noise Ratio (DIN) . . . . . Mono: 62 dB
Stereo: 58 dB
Distortion . . . . . Stereo: 0.6 % (1 kHz)
Alternate Channel Selectivity . . . . . 70 dB (400 kHz)
Stereo Separation . . . . . 40 dB (1 kHz)
Frequency Response . . . . . 30 Hz to 15 kHz ± 1dB
Antenna Input . . . . . 75 Ω unbalanced

AM Tuner Section

Frequency Range . . . . . 531 kHz to 1602 kHz (9 kHz step)
Sensitivity (IHF, Loop antenna) . . . . . 350 μV/m
Selectivity . . . . . 30 dB
Signal-to-Noise Ratio . . . . . 50 dB
Antenna . . . . . Loop antenna

Miscellaneous

Power Requirements . . . AC 220 V to 230 V, 50 Hz / 60 Hz
Power Consumption . . . . . 450 W
In standby . . . . . 0.7 W
Dimensions . . . . . 420 (W) mm x 173 (H) mm x 466 (D) mm
Weight (without package) . . . . . 15.3 kg

Furnished Parts

Setup microphone (for Auto MCACC setup) 1
AA/LR6 dry cell batteries. 2
Remote control unit 1
AM loop antenna. 1
FM wire antenna 1
iPod audio control cable. 1
Warranty card 1
These operating instructions

Note

• Specifications and the design are subject to possible modifications without notice, due to improvements.

■ For VSX-81TXV, VSX-81TXV-S and VSX-9110TXV-K

Amplifier section (VSX-81TX and VSX-81TXV-S)

Continuous average power output of 110 watts* per channel, min., at 8 ohms, from 20 Hz to 20 000 Hz with no more than 0.09 %** total harmonic distortion (front).

Continuous Power Output (20 Hz to 20 kHz, 8 Ω, 0.09 %)
Front. . . . . .110 W + 110 W
Center . . . . . 110 W
Surround . . . . . 110 W + 110 W
Surround back . . . . . .110 W + 110 W

Continuous Power Output (1 kHz, 6 Ω, 1.0 %)
Front. . . . . .150 W + 150 W
Center . . . . . 150 W
Surround . . . . . 150 W + 150 W
Surround back . . . . . .150 W + 150 W

Total harmonic distortion . . . . . 0.09 %
(20 Hz to 20 kHz, 110 W, 8 Ω)

* Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers
** Measured by Audio Spectrum Analyzer

Amplifier section (VSX-9110TXV-K)

Continuous average power output of 120 watts* per channel, min., at 8 ohms, from 20 Hz to 20 000 Hz with no more than 0.2 %** total harmonic distortion (front).

Continuous Power Output (20 Hz to 20 kHz, 8 Ω, 0.2 %)
Front. . . . . .120 W + 120 W
Center . . . . . 120 W
Surround . . . . . 120 W + 120 W
Surround back . . . . . .120 W + 120 W

Continuous Power Output (1 kHz, 6 Ω, 1.0 %)
Front. . . . . .150 W + 150 W
Center . . . . . 150 W
Surround . . . . . 150 W + 150 W
Surround back . . . . . .150 W + 150 W

Total harmonic distortion . . . . . 0.2 %
(20 Hz to 20 kHz, 120 W, 8 Ω)

* Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers
** Measured by Audio Spectrum Analyzer

Audio Section

Input (Sensitivity/Impedance)
LINE . . . . . 335 mV/47 kΩ
Frequency Response (LINE) . . 5 Hz to 100 000 Hz $^{+0}_{-3}$ dB
Output (Level/Impedance)
REC . . . . . 335 mV/2.2 kΩ
Tone Control
BASS . . . . . ± 6 dB (100 Hz)
TREBLE . . . . . ± 6 dB (10 kHz)
LOUDNESS . . . . . +4 dB / +2 dB (100Hz/10 kHz)
(at volume position –40 dB)
Signal-to-Noise Ratio (IHF, short circuited, A network)
LINE . . . . . 103 dB
Signal-to-Noise Ratio [EIA, at 1W (1 kHz)]
LINE . . . . . 83 dB

Composite Video / S-Video Section

Input (Sensitivity/Impedance) . . . . . 1 Vp-p/75 Ω
Output (Level/Impedance) . . . . . 1 Vp-p/75 Ω
Signal-to-Noise Ratio . . . . . 65 dB
Frequency Response . . . . . 5 Hz to 10 MHz

Component Video Section

Input (Sensitivity/Impedance) . . . . . 1 Vp-p/75 Ω
Output (Level/Impedance) . . . . . 1 Vp-p/75 Ω
Signal-to-Noise Ratio . . . . . 65 dB
Frequency Response . . . . . 5 Hz to 100 MHz

FM Tuner Section

Frequency Range . . . . . 87.5 MHz to 108 MHz
Usable Sensitivity . . . . . Mono: 13.2 dBf, IHF (1.3 μV/75 Ω)
50 dB Quieting Sensitivity . . . . . Mono: 20.2 dBf
Stereo: 38.6 dBf
Signal-to-Noise Ratio . . . . . Mono: 73 dB (at 85 dBf)
Stereo: 70 dB (at 85 dBf)
Distortion . . . . . Stereo: 0.5 % (1 kHz)
Alternate Channel Selectivity . . . . . 60 dB (400 kHz)
Stereo Separation . . . . . 40 dB (1 kHz)
Frequency Response . . . . . 30 Hz to 15 kHz ± 1 dB
Antenna Input . . . . . 75 Ω unbalanced

AM Tuner Section

Frequency Range . . . . . 530 kHz to 1700 kHz
Sensitivity (IHF, Loop antenna) . . . . . 350 μV/m
Selectivity . . . . . 25 dB
Signal-to-Noise Ratio . . . . . 50 dB
Antenna . . . . . Loop antenna

Miscellaneous

Power Requirements . . . . . AC 120 V, 60 Hz
Power Consumption . . . . . .490 W, 650 VA
In standby . . . . . 0.65 W
AC Outlet . . . . . (switched) 100 W MAX.
Dimensions . . . . . 420 (W) mm x 173 (H) mm x 466 (D) mm
(16 9/16 (W) in. x 6 13/16 (H) in. x 18 3/8 (D) in.)
Weight (without package) . . . . . 15.3 kg (33 lbs 12 oz)

Furnished Parts

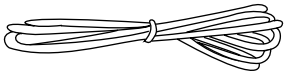
Setup microphone (for Auto MCACC setup) 1
AA/IEC R6P dry cell batteries. 2
Remote control unit 1
AM loop antenna. 1
FM wire antenna 1
iPod audio control cable. 1
Warranty card 1
These operating instructions

Note

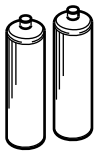
- Specifications and the design are subject to possible modifications without notice, due to improvements.

● Accessories

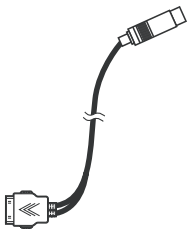
AM Loop Antenna
(ATB7013)



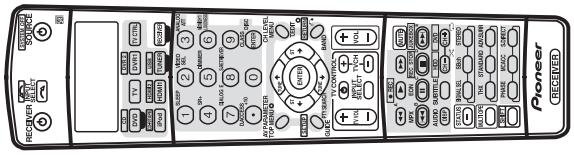
FM Wire Antenna
(ADH7030)



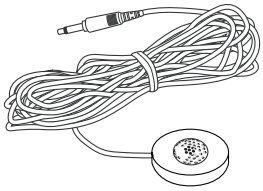
AA/LR6 Dry Cell Batteries
(VEM1021: VSX-2016AV-S)
AA/IED R6P Dry Cell Batteries
(VEM1031: Other models)



Audio Control Cable for iPod
(ADE7119)



Remote Control Unit
(AXD7432: VSX-2016AV-S)
(AXD7431: Other models)



Setup Microphone
(for Auto MCACC setup)
(APM7008)

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A

B

C

D

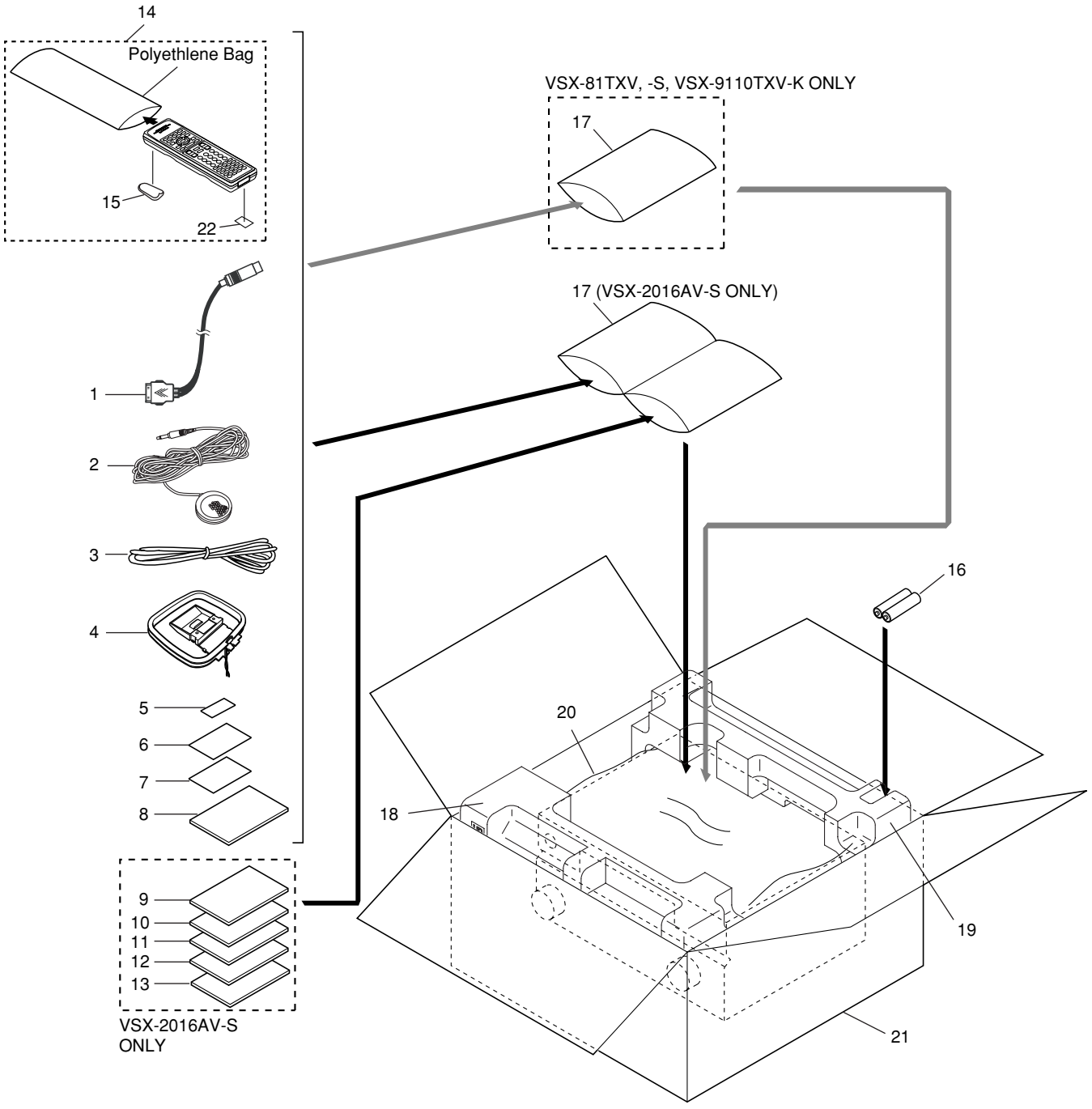
E

F

2. EXPLODED VIEWS AND PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*

2.1 PACKING SECTION



(1) PACKING SECTION PARTS LIST

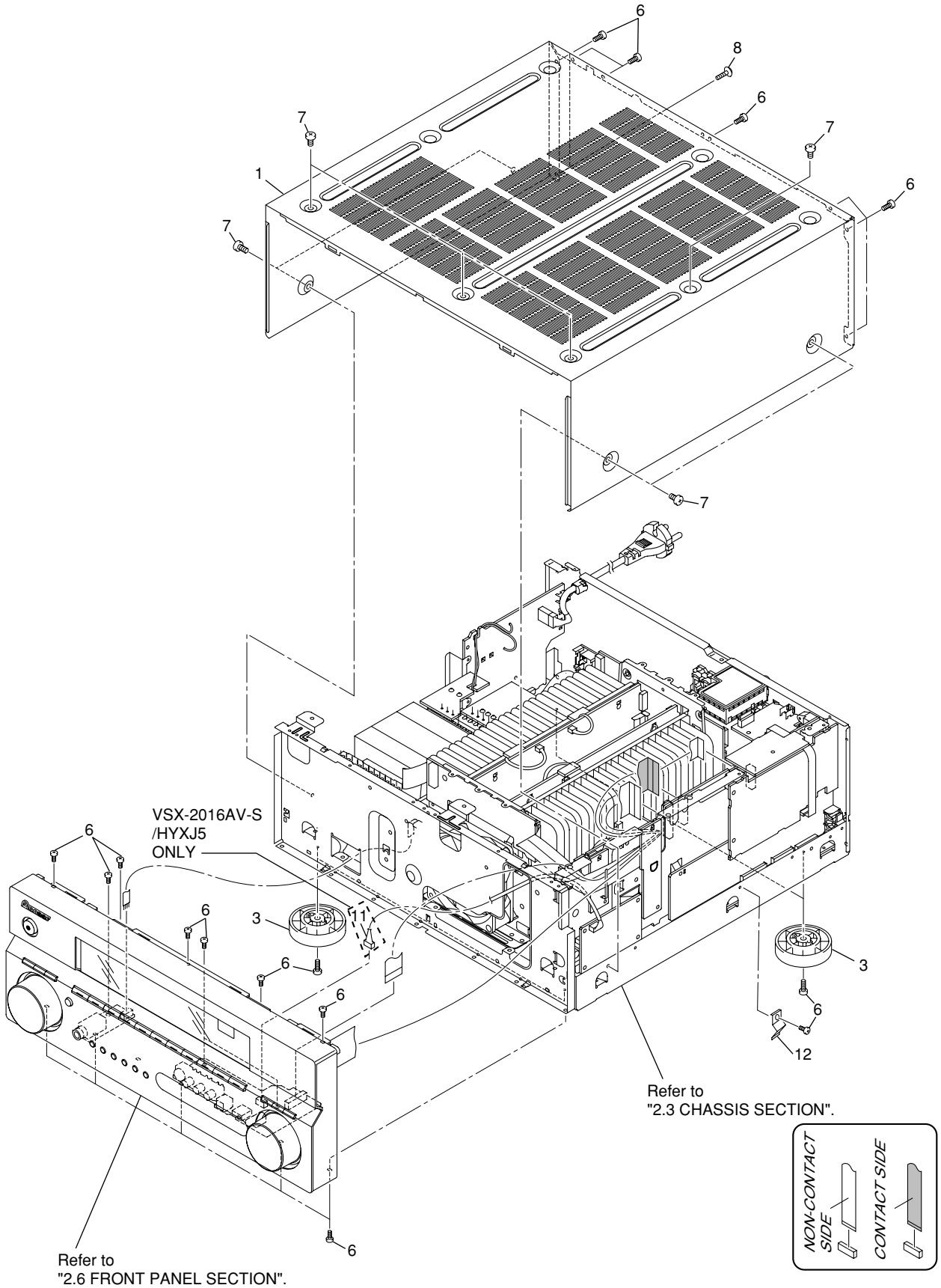
Mark	No.	Description	Part No.
	1	iPod Audio Control Cable	ADE7119
	2	Setup Microphone (for Auto MCACC setup)	APM7008
	3	FM Wire Antenna	ADH7030
	4	AM Loop Antenna	ATB7013
NSP	5	Warranty Card	See Contrast table (2)
	6	Caution Sheet(Spanish/English)	ARM7083
	7	Disclaimer	See Contrast table (2)
	8	Operating Instructions (English)	See Contrast table (2)
	9	Operating Instructions (French)	See Contrast table (2)
	10	Operating Instructions (German)	See Contrast table (2)
	11	Operating Instructions (Italian)	See Contrast table (2)
	12	Operating Instructions (Spanish)	See Contrast table (2)
	13	Operating Instructions (Dutch)	See Contrast table (2)
	14	Remote Control Unit	See Contrast table (2)
	15	Battery Cover	XZN3140
NSP	16	Dry Cell Battery	See Contrast table (2)
NSP	17	Polyethylene Bag	See Contrast table (2)
	18	Front Pad	AHA7456
	19	Rear Pad	AHA7457
	20	Packing Sheet	RHC1023
	21	Packing Case	See Contrast table (2)
	22	LABEL (WEEE)	See Contrast table (2)

(2) CONTRAST TABLE

VSX-2016AV-S/HYXJ5, VSX-81TXV/KUXJCA, VSX-81TXV-S/KUXJCA and VSX-9110TXV-K/KUXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-2016AV-S /HYXJ5	VSX-81TXV /KUXJCA	VSX-81TXV-S /KUXJCA	VSX-9110TXV-K /KUXJ
NSP	5	Warranty Card	ARY7065	ARY7007	ARY7007	ARY7045
	7	Disclaimer (English/French/German/Italian /Spanish/Dutch)	ARX7081	Not used	Not used	Not used
	7	Disclaimer (English/French)	Not used	ARX7080	ARX7080	ARX7080
	8	Operating Instructions (English)	ARB7355	ARB7356	ARB7356	ARB7357
	9	Operating Instructions (French)	ARC7693	Not used	Not used	Not used
	10	Operating Instructions (German)	ARC7694	Not used	Not used	Not used
	11	Operating Instructions (Italian)	ARC7695	Not used	Not used	Not used
	12	Operating Instructions (Spanish)	ARC7696	Not used	Not used	Not used
	13	Operating Instructions (Dutch)	ARC7697	Not used	Not used	Not used
	14	Remote Control Unit	AXD7432	AXD7431	AXD7431	AXD7431
NSP	16	Dry Cell Battery AA/LR6	VEM1021	Not used	Not used	Not used
NSP	16	Dry Cell Battery AA/IEC R6P	Not used	VEM1031	VEM1031	VEM1031
NSP	17	Polyethylene Bag	AHG7132	AHG7117	AHG7117	AHG7117
	21	Packing Case 2016SHY	AHD8437	Not used	Not used	Not used
	21	Packing Case 81KKU	Not used	AHD8428	Not used	Not used
	21	Packing Case 81SKU	Not used	Not used	AHD8432	Not used
	21	Packing Case 9110KKU	Not used	Not used	Not used	AHD8433
	22	LABEL (WEEE)	ARW7322	Not used	Not used	Not used

2.2 EXTERIOR SECTION



(1) EXTERIOR SECTION PARTS LIST

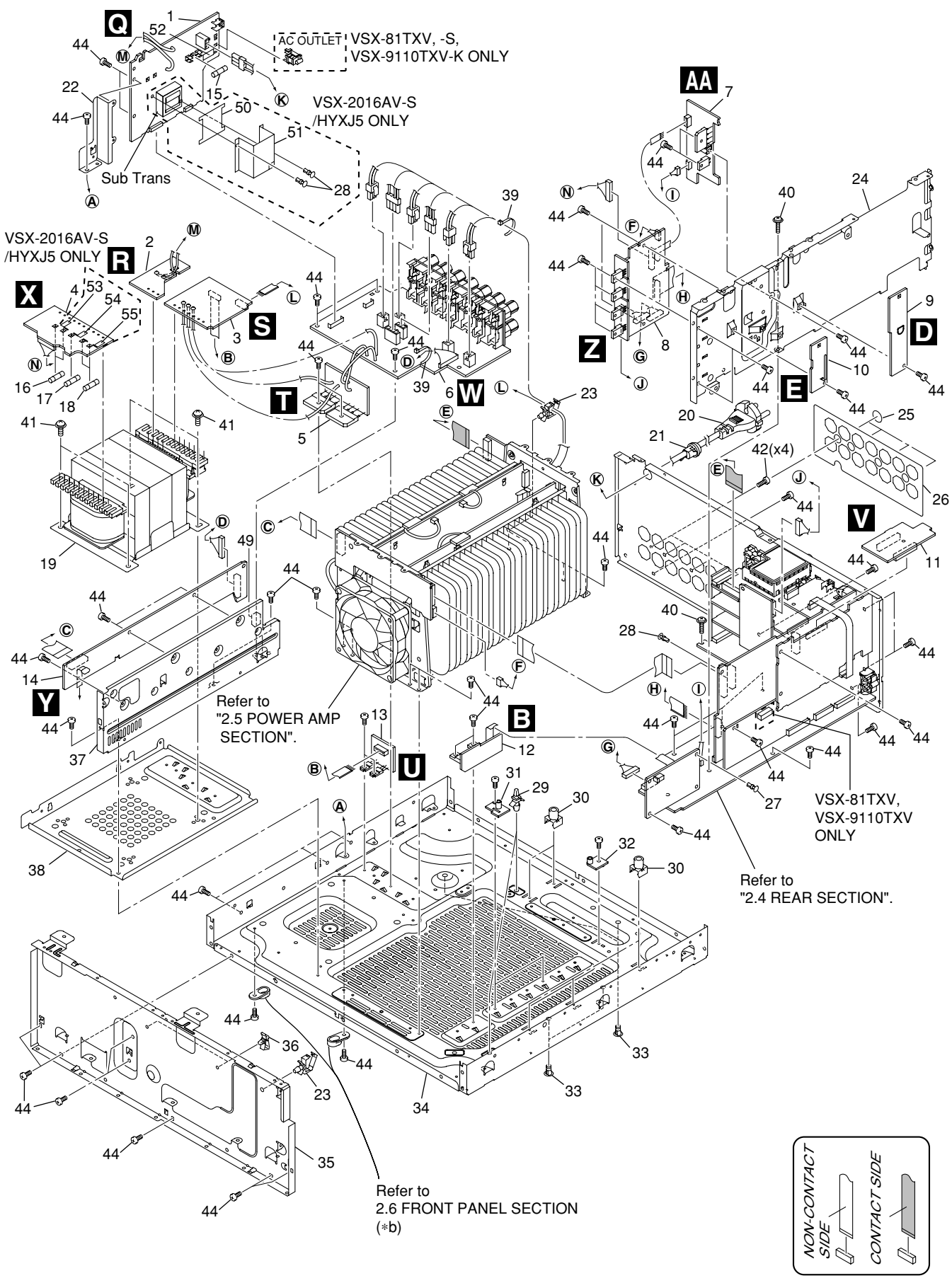
Mark	No.	Description	Part No.
	1	Bonnet	See Contrast table (2)
	3	Insulator	See Contrast table (2)
	6	Screw	BBZ30P080FCC
	7	Screw	See Contrast table (2)
	8	Screw	IBP30P090FCC
	11	4P Shielded Cable	See Contrast table (2)
	12	Earth Spring	ABH7245

(2) CONTRAST TABLE

VSX-2016AV-S/HYXJ5, VSX-81TXV/KUXJCA, VSX-81TXV-S/KUXJCA and VSX-9110TXV-K/KUXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-2016AV-S /HYXJ5	VSX-81TXV /KUXJCA	VSX-81TXV-S /KUXJCA	VSX-9110TXV-K /KUXJ
	1	Bonnet 2016S	AZN8020	Not used	AZN8020	Not used
	1	Bonnet 81B	Not used	AZN8021	Not used	AZN8021
	3	Insulator	PNW2766	AMR7198	AMR7198	PNW2766
	7	Screw	BCZ40P060FNI	BCZ40P060FTB	BCZ40P060FNI	BCZ40P060FTB
	11	4P Shielded Cable	XDX3028	Not used	Not used	Not used

2.3 CHASSIS SECTION



(1) CHASSIS SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	PRIMARY Assy	See Contrast table (2)
	2	TRANS 1 Assy	AWX9038
	3	TRANS 2-1 Assy	See Contrast table (2)
	4	TRANS 2-2 Assy	AWX9062
	5	DIODE 1 Assy	AWX9060
	6	PS/SP Assy	See Contrast table (2)
	7	DC/DC Assy	AWX9015
	8	LOCAL P-SUPPLY Assy	See Contrast table (2)
	9	GUARD-C Assy	AWX9051
	10	GUARD-F Assy	AWX9070
	11	BRIDGE 1 Assy	AWX9078
	12	12V-REG Assy	AWX9014
	13	VH TR Assy	AWX9061
	14	TRANS SIDE Assy	AWX9056
⚠	15	Fuse (FU1)	See Contrast table (2)
⚠	16	Fuse (FU7,FU8)	See Contrast table (2)
⚠	17	Fuse (FU4)	See Contrast table (2)
⚠	18	Fuse (FU5,FU6)	See Contrast table (2)
⚠	19	Power Transformer (T1501)	See Contrast table (2)
⚠	20	AC Power Cord	See Contrast table (2)
	21	Cord Stopper	See Contrast table (2)
	22	Primary Angle 56	ANG7526
NSP	23	Wire Saddle	DEC1450
	24	DSP Shield 2016	ANG7546
	25	Cushion Circle 14B	AED7081
	26	SP Sheet 2016	AEC7560
	27	Nyron Rivet	AEC7408
	28	Nyron Rivet	AEC7406
	29	Locking Card Spacer	PNW2917
	30	PCB Mold	AMR2534
	31	Inter Holder A	AMR7500
	32	Inter Holder B	AMR7501
	33	Card Spacer	DNK2769
NSP	34	Under Base 2016	ANA7189
NSP	35	Panel Stay 2016	AND7082
	36	Side Clamp	DEC2007
	37	Under Beam V1	ANG7478
NSP	38	Trans Frame 74	ANG7539
NSP	39	Binder	ZCA-BK1
	40	Screw 3x15	ABA7100
	41	Screw	ABA7109
	42	Screw	BBT30P100FCC
	44	Screw	BBZ30P080FCC
	49	Bridge Spacer	AEB7201
	50	Primary Barrier	See Contrast table (2)
	51	Shield Case	See Contrast table (2)
NSP	52	Fuse Card	See Contrast table (2)
NSP	53	Fuse Card	See Contrast table (2)
NSP	54	Fuse Card	See Contrast table (2)
NSP	55	Fuse Card	See Contrast table (2)

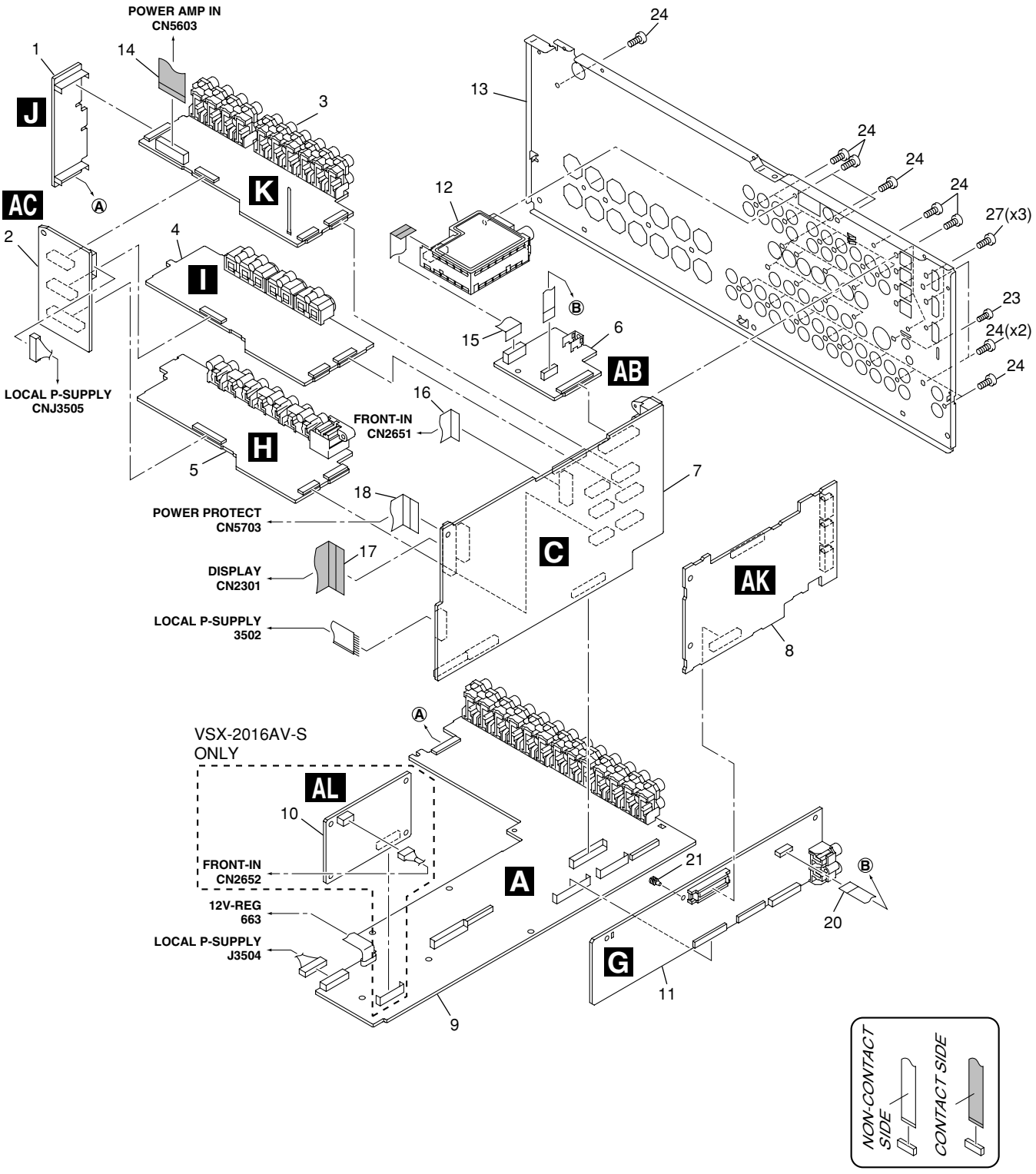
(2) CONTRAST TABLE

VSX-2016AV-S/HYXJ5, VSX-81TXV/KUXJCA, VSX-81TXV-S/KUXJCA and VSX-9110TXV-K/KUXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-2016AV-S /HYXJ5	VSX-81TXV /KUXJCA	VSX-81TXV-S /KUXJCA	VSX-9110TXV-K /KUXJ
	1	PRIMARY Assy	AWX9035	AWX9034	AWX9034	AWX9034
	3	TRANS 2-1 Assy	AWX9059	AWX9058	AWX9058	AWX9058
	6	PS/SP Assy	AWX9107	AWX9052	AWX9052	AWX9052
	8	LOCAL P-SUPPLY Assy	AWX9064	AWX9063	AWX9063	AWX9063
⚠	15	Fuse (FU1: T5 A L 250 V)	REK1029	Not used	Not used	Not used
⚠	15	Fuse (FU1: 10 A/125 V)	Not used	REK1154	REK1154	REK1154
⚠	16	Fuse (FU7,FU8: T2.5 A L 250 V)	REK1026	Not used	Not used	Not used
⚠	16	Fuse (FU7,FU8: 2.5 A/125 V)	Not used	REK1146	REK1146	REK1146
⚠	17	Fuse (FU4: T4 A L 250 V)	REK1028	Not used	Not used	Not used
⚠	17	Fuse (FU4: 5 A/125 V)	Not used	REK1067	REK1067	REK1067
⚠	18	Fuse (FU5,FU6: T800 mA L 250 V)	REK1021	Not used	Not used	Not used
⚠	18	Fuse (FU5,FU6: 1.25 A/125 V)	Not used	REK1143	REK1143	REK1143
⚠	19	Power Transformer (T1501)	ATS7408	ATS7407	ATS7407	ATS7407
⚠	20	AC Power Cord	VDG1080	VDG1075	VDG1075	VDG1075
	21	Cord Stopper	CM-22B	CM-22C	CM-22C	CM-22C
	50	Primary Barrier	AEC7569	Not used	Not used	Not used
	51	Shield Case	AMR7526	Not used	Not used	Not used
NSP	52	Fuse Card	AAX7098	Not used	Not used	Not used
NSP	53	Fuse Card	AAX7277	Not used	Not used	Not used
NSP	54	Fuse Card	AAX7099	Not used	Not used	Not used
NSP	55	Fuse Card	AAX2367	Not used	Not used	Not used

2.4 REAR SECTION

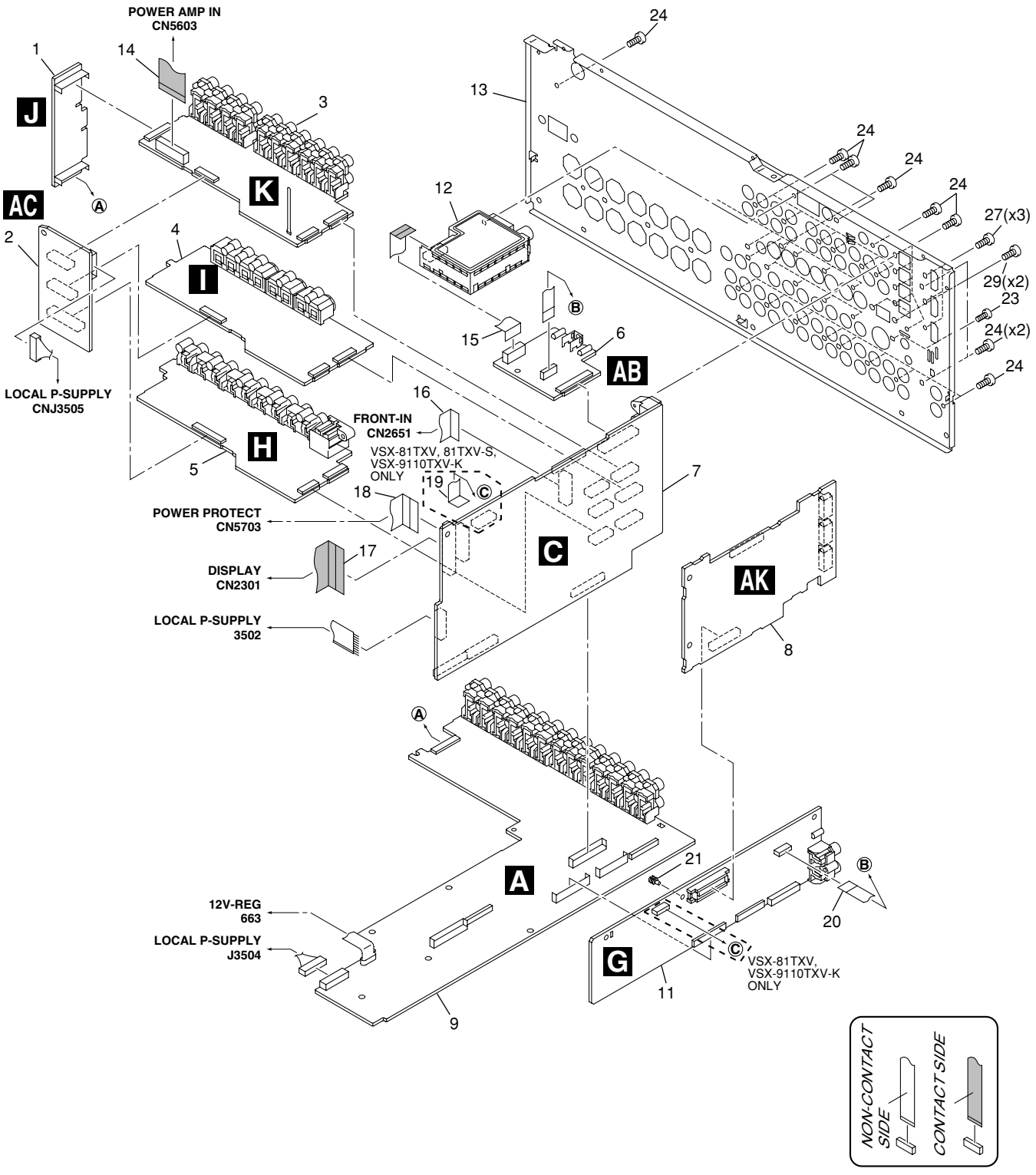
• VSX-2016AV-S



(1) REAR SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	BRIDGE 2 Assy	AWX9050
	2	VIDEO CONNECT Assy	AWX9069
	3	COMPONENT Assy	AWX9031
	4	S-VIDEO Assy	AWX9030
	5	COMPOSITE Assy	AWX9028
	6	IR I/O Assy	AWX9067
	7	MAIN CONTROL Assy	AWX9009
	8	HDMI & DVC Assy	AWQ7037
	9	AUDIO IN Assy	AWX9013
	10	USB Assy	AWX8704
	11	DSP Assy	AWX8698
	12	FM/AM Tuner Unit	AXX7170
	13	Rear Panel 2016SHY	ANC8377
	14	19P FFC/60V (J58)	ADD7535
	15	11P FFC/60V (J59)	ADD7536
	16	17P FFC/60V (J54)	ADD7540
	17	29P FFC/60V (J55)	ADD7532
	18	19P FFC/60V (J56)	ADD7533
	20	10P FFC/60V (J51)	ADD7528
	21	Card Spacer	AEC7214
	23	Screw	BBZ26P080FCC
	24	Screw	BBZ30P080FCC
	27	Screw	PMZ30P060FCC

• VSX-81TXV, -S, VSX-9110TXV-K



(1) REAR SECTION PARTS LIST

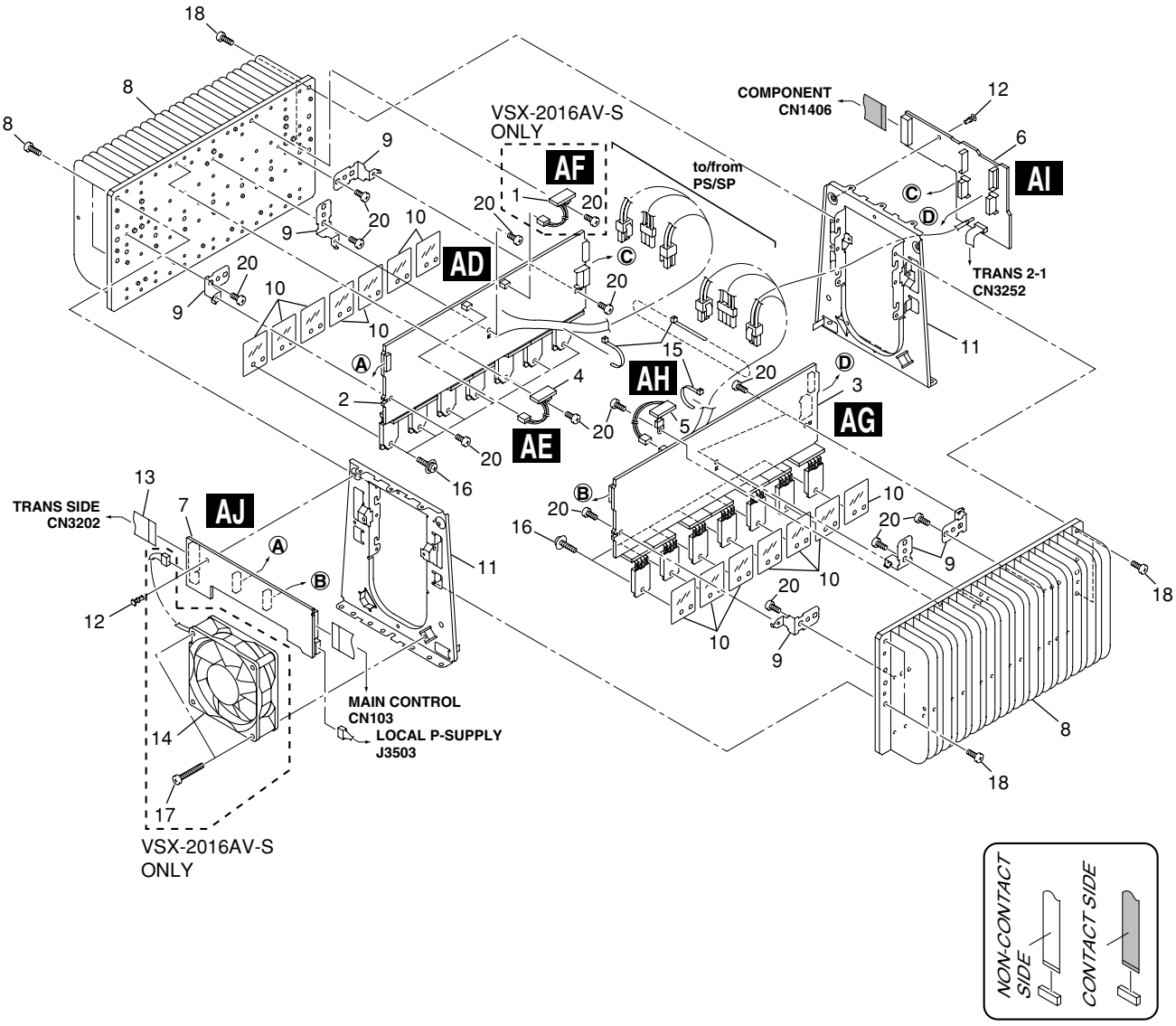
Mark	No.	Description	Part No.
	1	BRIDGE 2 Assy	AWX9050
	2	VIDEO CONNECT Assy	AWX9069
	3	COMPONENT Assy	See Contrast table (2)
	4	S-VIDEO Assy	See Contrast table (2)
	5	COMPOSITE Assy	See Contrast table (2)
	6	IR I/O Assy	See Contrast table (2)
	7	MAIN CONTROL Assy	See Contrast table (2)
	8	HDMI & DVC Assy	AWQ7037
	9	AUDIO IN Assy	See Contrast table (2)
	11	DSP Assy	See Contrast table (2)
	12	FM/AM Tuner Unit	See Contrast table (2)
	13	Rear Panel	See Contrast table (2)
	14	19P FFC/60V (J58)	ADD7535
	15	11P FFC/60V (J59)	ADD7536
	16	17P FFC/60V (J54)	ADD7540
	17	29P FFC/60V (J55)	ADD7532
	18	19P FFC/60V (J56)	ADD7533
	19	12P FFC/60V (J52)	See Contrast table (2)
	20	10P FFC/60V (J51)	ADD7528
	21	Card Spacer	AEC7214
	23	Screw	BBZ26P080FCC
	24	Screw	BBZ30P080FCC
	27	Screw	PMZ30P060FCC
	29	Screw 2.85 x 7	ABA7078

(2) CONTRAST TABLE

VSX-81TXV/KUXJCA, VSX-81TXV-S/KUXJCA and VSX-9110TXV-K/KUXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-81TXV /KUXJCA	VSX-81TXV-S /KUXJCA	VSX-9110TXV-K /KUXJ
	3	COMPONENT Assy	AWX9032	AWX9032	AWX9032
	4	S-VIDEO Assy	AWX9029	AWX9029	AWX9029
	5	COMPOSITE Assy	AWX9026	AWX9026	AWX9026
	6	IR I/O Assy	AWX9066	AWX9066	AWX9066
	7	MAIN CONTROL Assy	AWX9008	AWX9008	AWX9008
	9	AUDIO IN Assy	AWX9012	AWX9012	AWX9012
	11	DSP Assy	AWX8697	AWX8697	AWX8697
	12	FM/AM Tuner Unit	AXX7172	AXX7172	AXX7172
	13	Rear Panel 81KKU	ANC8378	Not used	Not used
	13	Rear Panel 81SKU	Not used	ANC8379	Not used
	13	Rear Panel 9110KKU	Not used	Not used	ANC8380
	19	12P FFC/60V (J52)	ADD7529	ADD7529	ADD7529

2.5 POWER AMP SECTION



(1) POWER AMP SECTION PARTS LIST

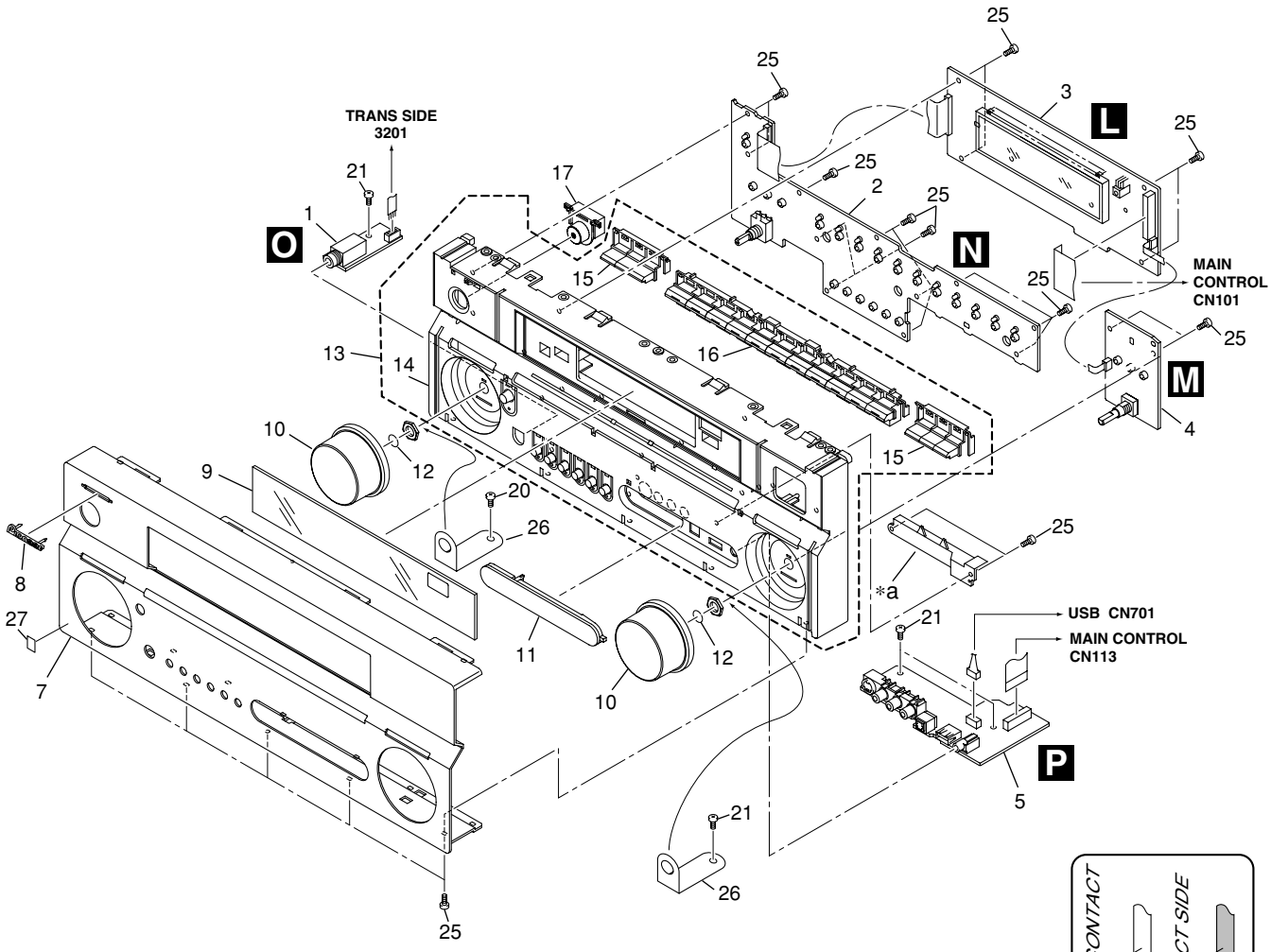
Mark	No.	Description	Part No.
	1	POSI 2-L Assy	See Contrast table (2)
	2	POWER AMP-L Assy	See Contrast table (2)
	3	POWER AMP-R Assy	See Contrast table (2)
	4	POSI 1-L Assy	See Contrast table (2)
	5	POSI 1-R Assy	See Contrast table (2)
	6	POWER AMP IN Assy	AWX9075
	7	POWER PROTECT Assy	See Contrast table (2)
NSP	8	Heat Sink 45	ANH7152
	9	PCB Angle 45	ANG7406
	10	Mica Sheet 45	AEE7047
	11	H.S. Angle 2016	ANG7547
	12	Nyron Rivet	AEC7408
	13	17P FFC/60V (J57)	ADD7534
⚠	14	DC Fan Motor	See Contrast table (2)
NSP	15	Binder	ZCA-BK1
	16	Screw 3X19	ABA7085
	17	Screw	See Contrast table (2)
	18	Screw	BBT30P100FCC
	20	Screw	BBZ30P080FCC

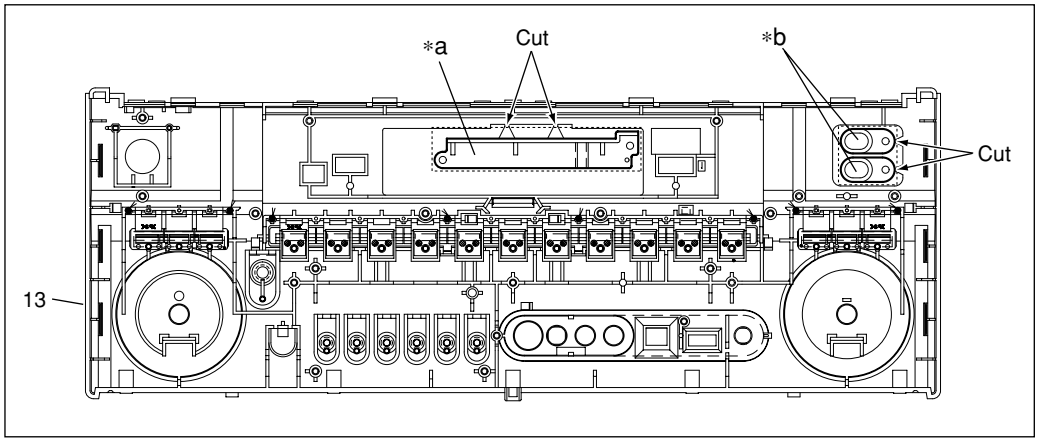
(2) CONTRAST TABLE

VSX-2016AV-S/HYXJ5, VSX-81TXV/KUXJCA, VSX-81TXV-S/KUXJCA and VSX-9110TXV-K/KUXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-2016AV-S /HYXJ5	VSX-81TXV /KUXJCA	VSX-81TXV-S /KUXJCA	VSX-9110TXV-K /KUXJ
	1	POSI 2-L Assy	AWX9082	Not used	Not used	Not used
	2	POWER AMP-L Assy	AWX9072	AWX9071	AWX9071	AWX9071
	3	POWER AMP-R Assy	AWX9073	AWX9106	AWX9106	AWX9106
	4	POSI 1-L Assy	AWX9081	AWX9080	AWX9080	AWX9080
	5	POSI 1-R Assy	AWX9084	AWX9083	AWX9083	AWX9083
	7	POWER PROTECT Assy	AWX9077	AWX9076	AWX9076	AWX9076
⚠	14	DC Fan Motor	AXM7029	Not used	Not used	Not used
	17	Screw	BBZ30P300FTC	Not used	Not used	Not used

2.6 FRONT PANEL SECTION





(1) FRONT PANEL SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	HEADPHONE Assy	AWX9049
	2	MULTI JOG Assy	See Contrast table (2)
	3	DISPLAY Assy	See Contrast table (2)
	4	VOLUME Assy	See Contrast table (2)
	5	FRONT-IN Assy	See Contrast table (2)
	7	F Panel	See Contrast table (2)
	8	Pioneer Name Plate	See Contrast table (2)
	9	Window	See Contrast table (2)
	10	Rotary Knob	See Contrast table (2)
	11	Input Cover	See Contrast table (2)
	12	Ring	ABH7213
	13	P Base Assy	See Contrast table (2)
NSP	14	P Base	See Contrast table (2)
NSP	15	Side Button	See Contrast table (2)
NSP	16	Func BTN Assy	See Contrast table (2)
	17	STDBY BTN Assy	See Contrast table (2)
	21	Screw	BBZ30P080FCC
	25	Screw	PPZ30P080FNI
	26	Earth Plate	See Contrast table (2)
NSP	27	Energy Star Label	See Contrast table (2)

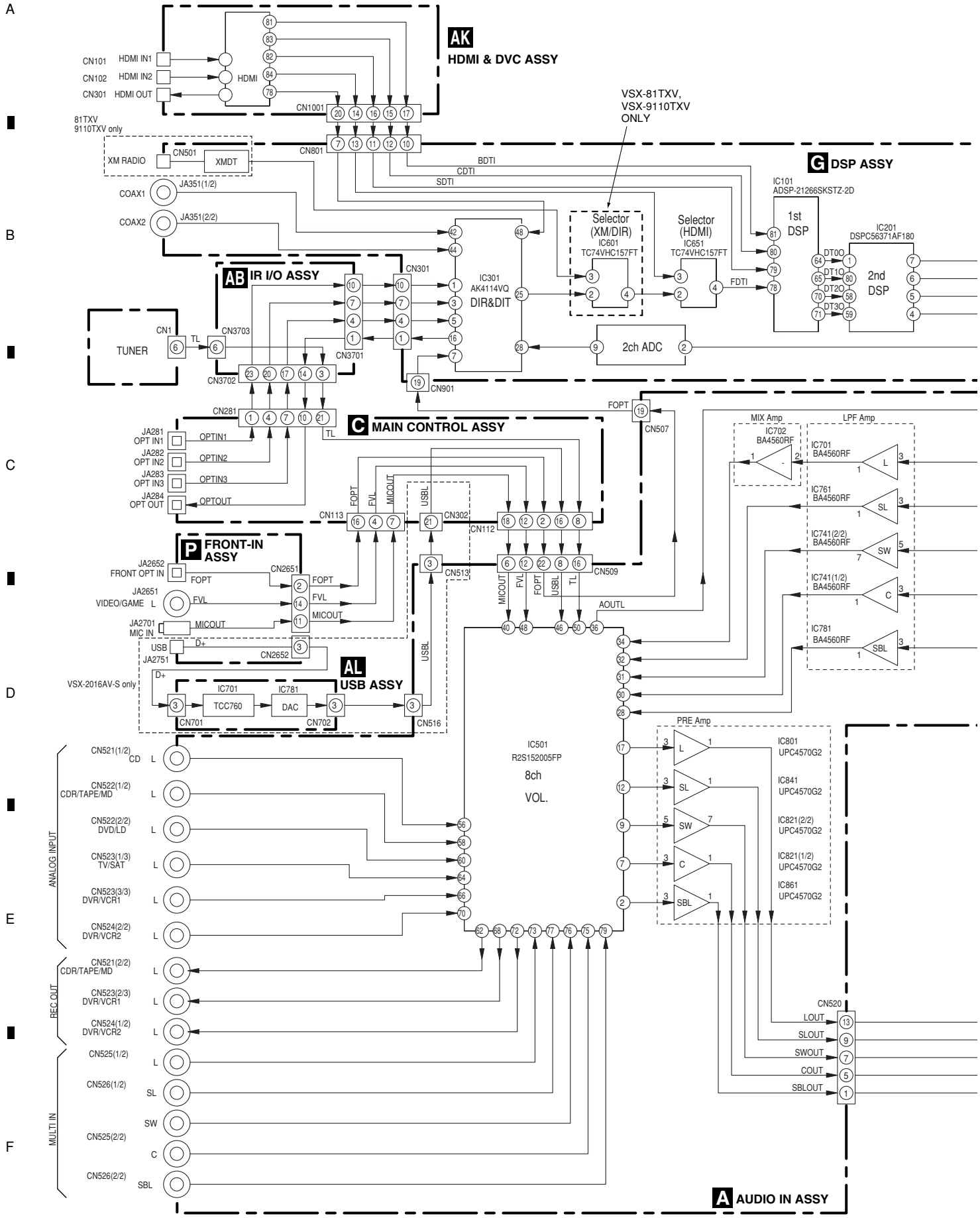
(2) CONTRAST TABLE

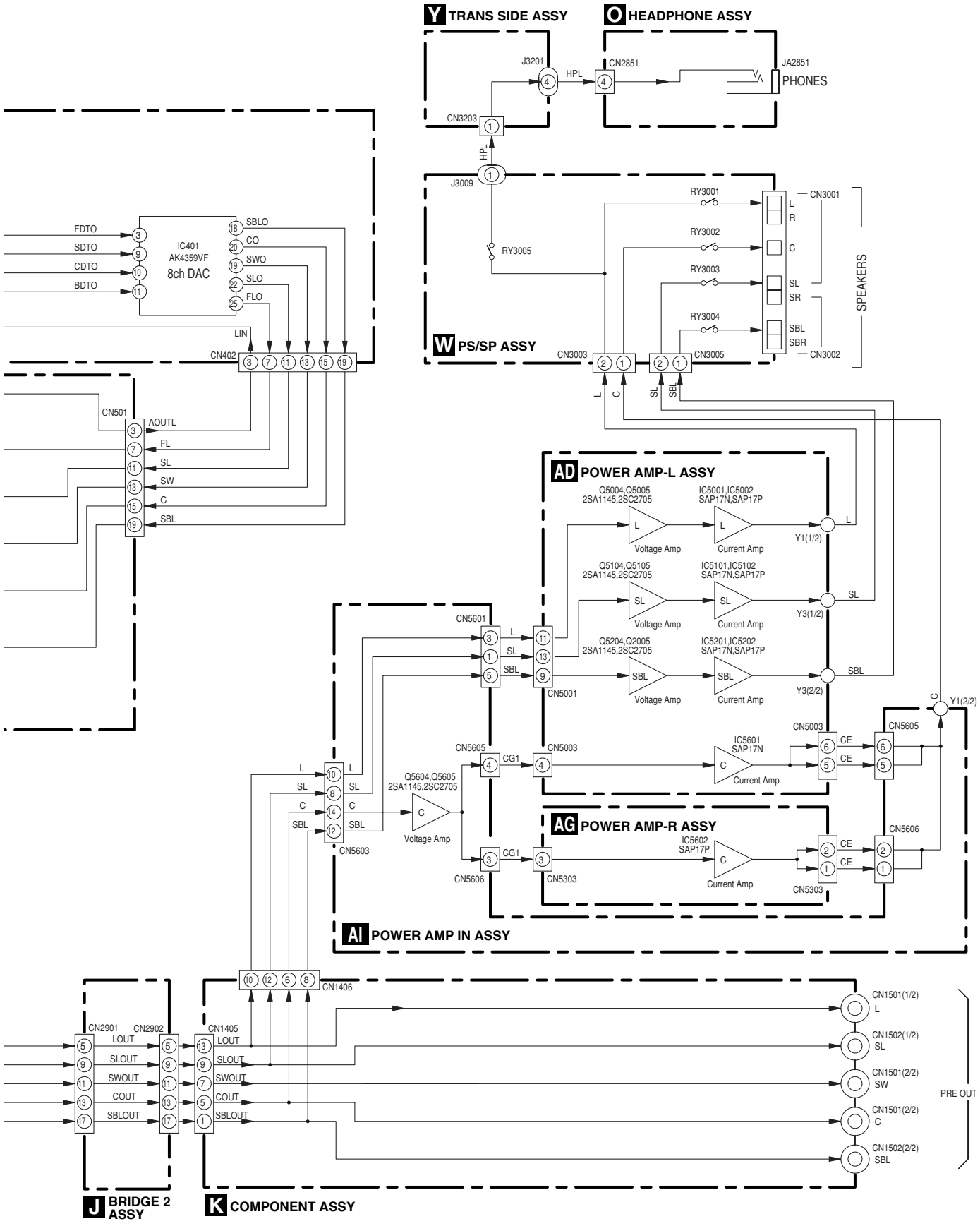
VSX-2016AV-S/HYXJ5, VSX-81TXV/KUXJCA, VSX-81TXV-S/KUXJCA and VSX-9110TXV-K/KUXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	VSX-2016AV-S /HYXJ5	VSX-81TXV /KUXJCA	VSX-81TXV-S /KUXJCA	VSX-9110TXV-K /KUXJ
	2	MULTI JOG Assy	AWX9112	AWX9045	AWX9112	AWX9045
	3	DISPLAY Assy	AWX9103	AWX9040	AWX9040	AWX9040
	4	VOLUME Assy	AWX9111	AWX9044	AWX9111	AWX9044
	5	FRONT-IN Assy	AWX9048	AWX9047	AWX9047	AWX9047
	7	F Panel 2016SHY	ANB7400	Not used	Not used	Not used
	7	F Panel 81KKU	Not used	ANB7397	Not used	Not used
	7	F Panel 81SKU	Not used	Not used	ANB7398	Not used
	7	F Panel 9110KKU	Not used	Not used	Not used	ANB7399
	8	Pioneer Name Plate	VAM1129	VAM1109	VAM1129	Not used
	8	Pioneer Badge B	Not used	Not used	Not used	XAM3006
	9	Window 2016HY	AAK8330	Not used	AAK8330	AAK8330
	9	Window 81K	Not used	AAK8331	Not used	Not used
	10	Rotary Knob P	AAA7033	Not used	AAA7033	Not used
	10	Rotary Knob B	Not used	AAA7024	Not used	AAA7024
	11	Input Cover V3S	XAK3533	Not used	XAK3533	Not used
	11	Input Cover 81K	Not used	AAK8355	Not used	Not used
	13	P Base 2016SHY Assy	AXG7287	Not used	Not used	Not used
	13	P Base 81KKU Assy	Not used	AXG7290	Not used	Not used
	13	P Base 81SKU Assy	Not used	Not used	AXG7308	Not used
	13	P Base 9110KKU Assy	Not used	Not used	Not used	AXG7309
NSP	14	P Base 2016SHY	AMB7920	Not used	Not used	Not used
NSP	14	P Base 81KKU	Not used	AMB7919	Not used	Not used
NSP	14	P Base 81SKU	Not used	Not used	AMB7925	Not used
NSP	14	P Base 9110KKU	Not used	Not used	Not used	AMB7921
NSP	15	Side Button S	AAD7760	Not used	AAD7760	Not used
NSP	15	Side Button K	Not used	AAD7761	Not used	AAD7761
NSP	16	Func BTN S Assy	AAD7757	Not used	AAD7757	Not used
NSP	16	Func BTN K Assy	Not used	AAD7758	Not used	AAD7758
	17	STDBY BTN 915P Assy	XAD3217	Not used	XAD3217	Not used
	17	STDBY BTN 915K Assy	Not used	XAD3216	Not used	XAD3216
	26	Earth Plate	ABK7062	Not Used	ABK7062	Not used
NSP	27	Energy Ster Label	Not used	AAX8022	AAX8022	AAX8022

3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM for AUDIO BLOCK

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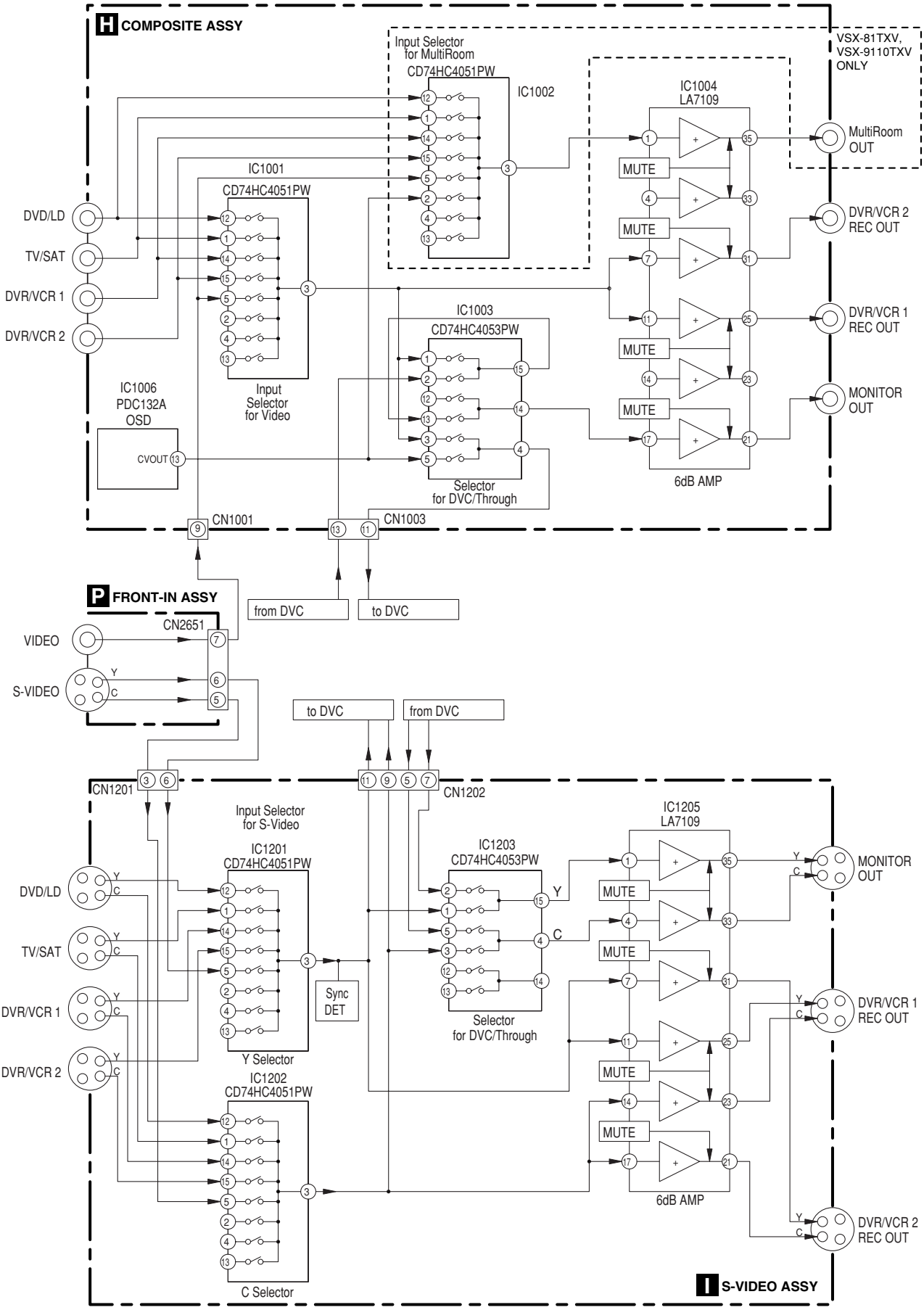
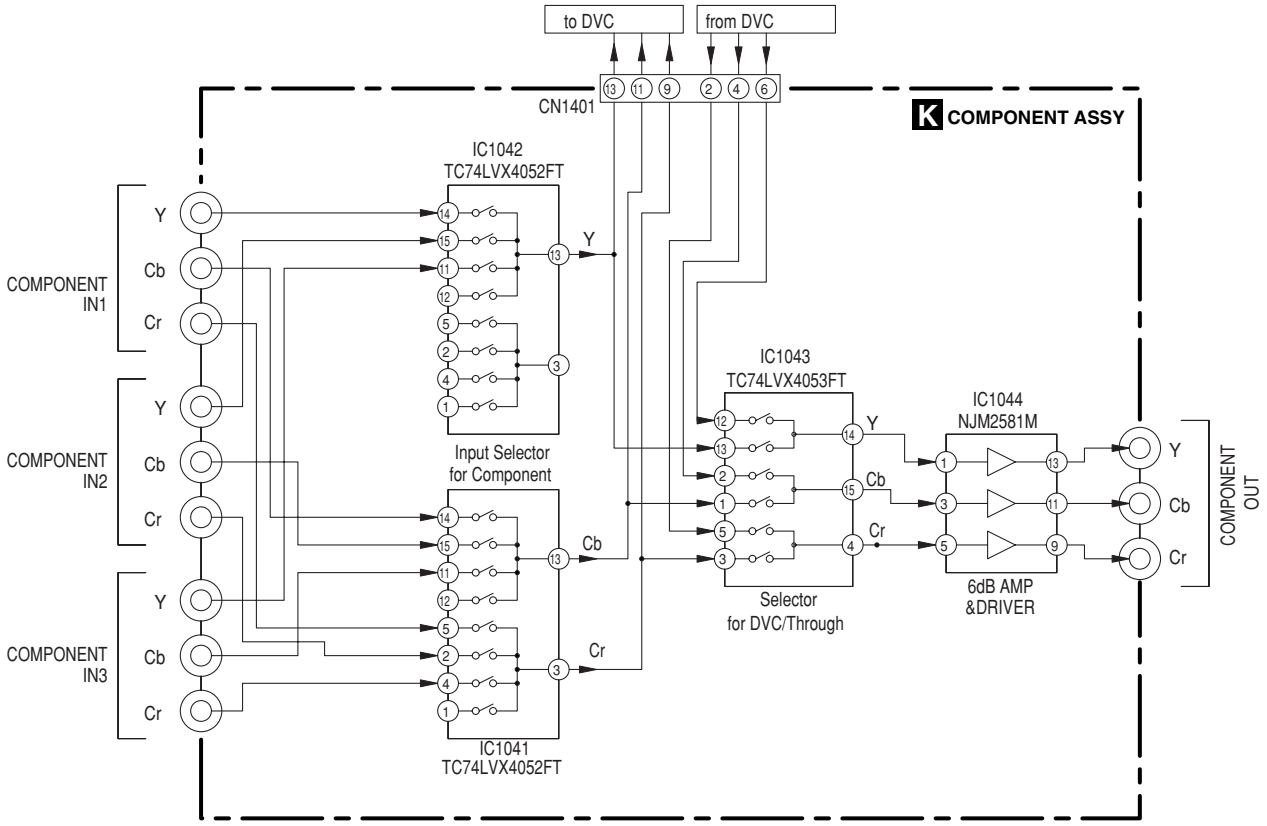
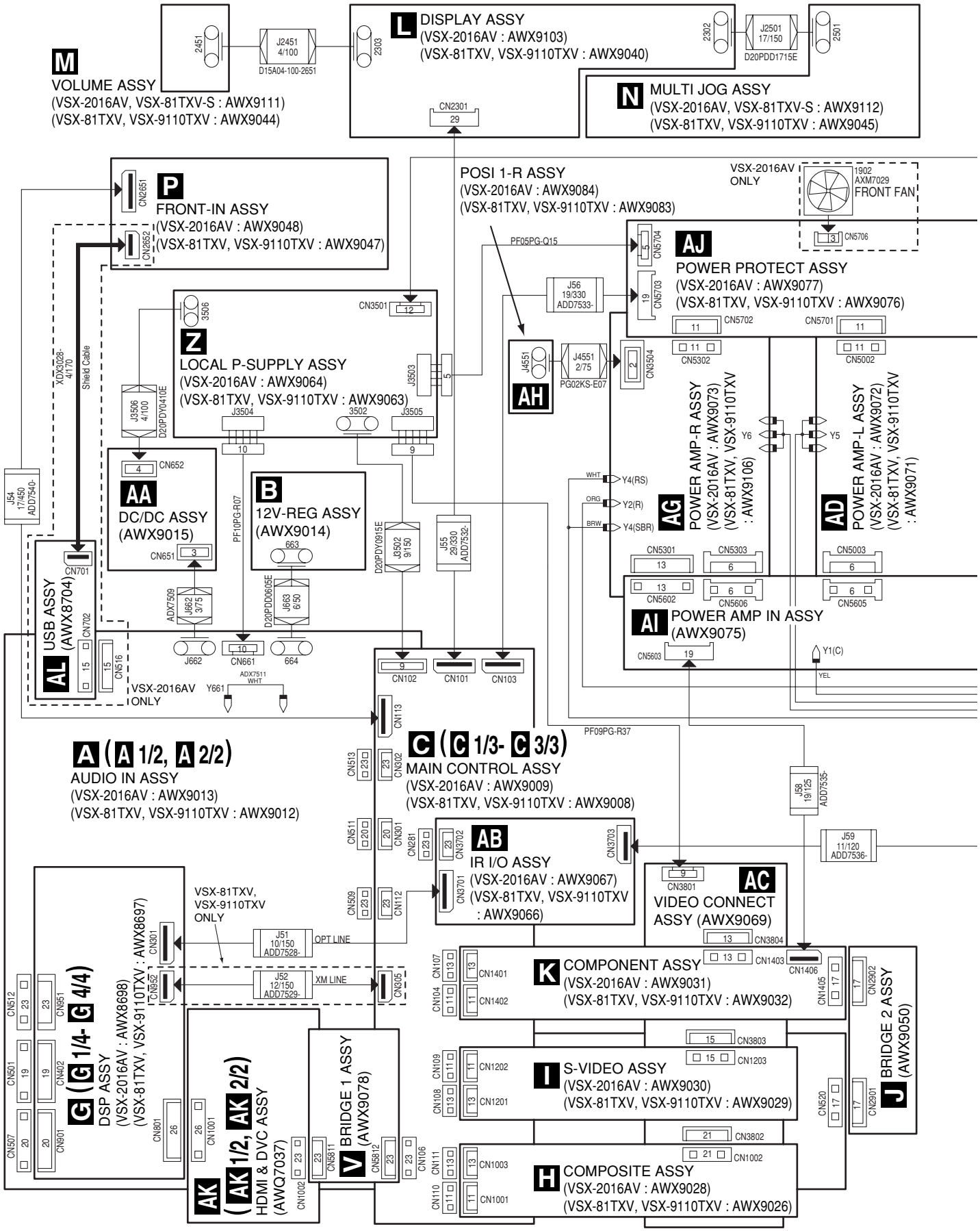
O HEADPHONE ASSY
J3201
HPL
CN2851
JA2851
PHONES
CN3203
HPL
J3009
RY3001
RY3002
RY3003
RY3004
RY3005
CN3001
L
R
C
SL
SR
SBL
SBR
CN3002
SPEAKERS
W PS/SP ASSY
CN3003
CN3005
L
C
SL
SBL
FDTO
SDTO
CDTO
BDTO
IC401
AK4359VF
8ch DAC
SBLO
CO
SWO
SLO
FLO
LIN
CN402
CN501
AOUTL
FL
SL
SW
C
SBL
AD POWER AMP-L ASSY
Q5004,Q5005
2SA1145,2SC2705
IC5001,IC5002
SAP17N,SAP17P
Voltage Amp
Current Amp
Y1(1/2)
Q5104,Q5105
2SA1145,2SC2705
IC5101,IC5102
SAP17N,SAP17P
Y3(1/2)
Q5204,Q2005
2SA1145,2SC2705
IC5201,IC5202
SAP17N,SAP17P
Y3(2/2)
CN5601
CN5001
CN5605
CN5003
CG1
IC5601
SAP17N
CE
Y1(2/2)
Q5604,Q5605
2SA1145,2SC2705
CN5603
AG POWER AMP-R ASSY
IC5602
SAP17P
CN5606
CN5303
AI POWER AMP IN ASSY
CN1406
CN2901
CN2902
CN1405
LOUT
SLOUT
SWOUT
COUT
SBLOUT
CN1501(1/2)
L
CN1502(1/2)
SL
CN1501(2/2)
SW
C
CN1502(2/2)
SBL
PRE OUT
J BRIDGE 2 ASSY
K COMPONENT ASSY

3.2 BLOCK DIAGRAM for VIDEO BLOCK

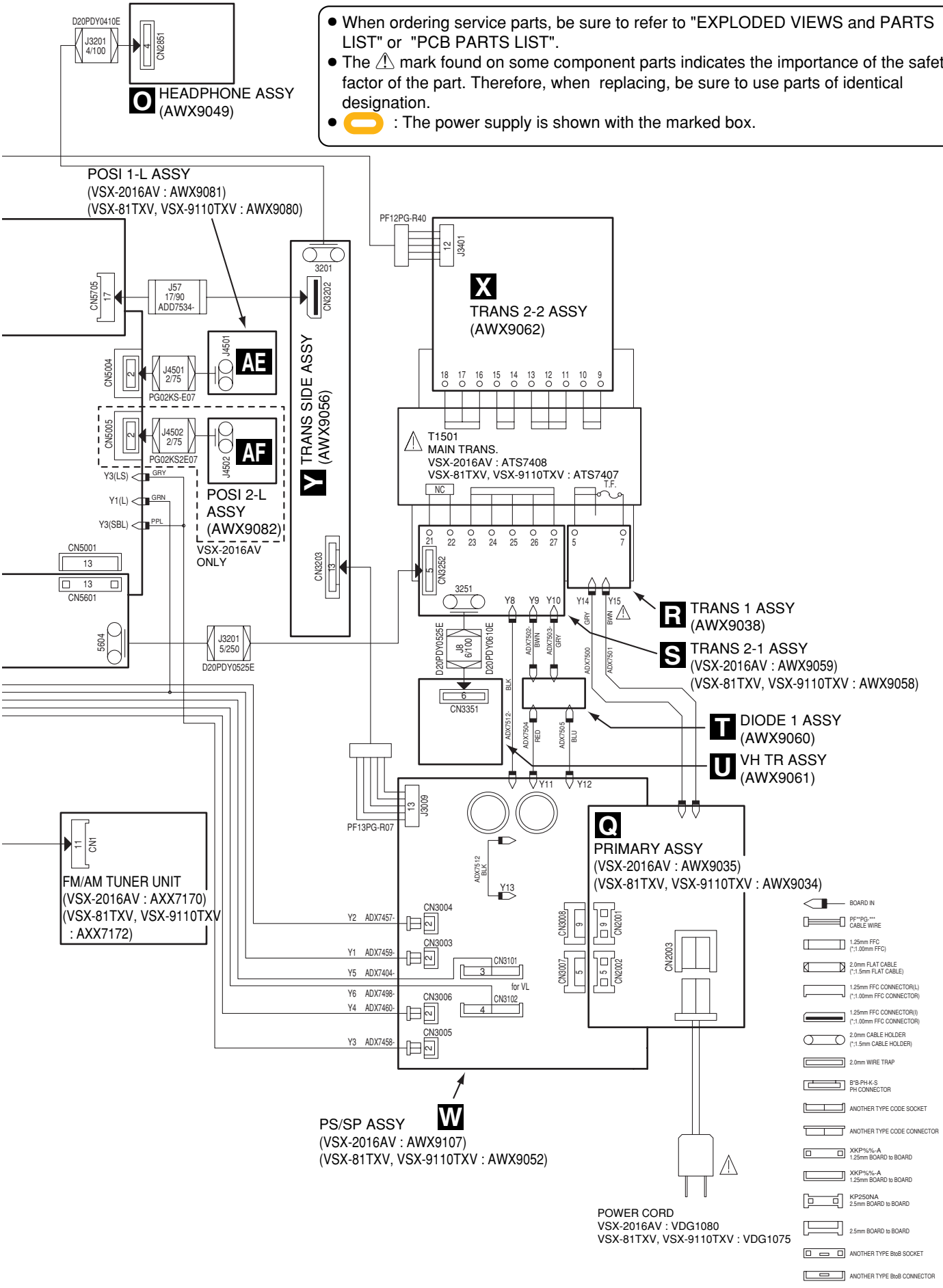



to DVC
from DVC
CN1401
K COMPONENT ASSY
IC1042
TC74LVX4052FT
COMPONENT IN1
COMPONENT IN2
COMPONENT IN3
Y
Cb
Cr
Input Selector for Component
IC1041
TC74LVX4052FT
IC1043
TC74LVX4053FT
Selector for DVC/Through
IC1044
NJM2581M
6dB AMP &DRIVER
COMPONENT OUT

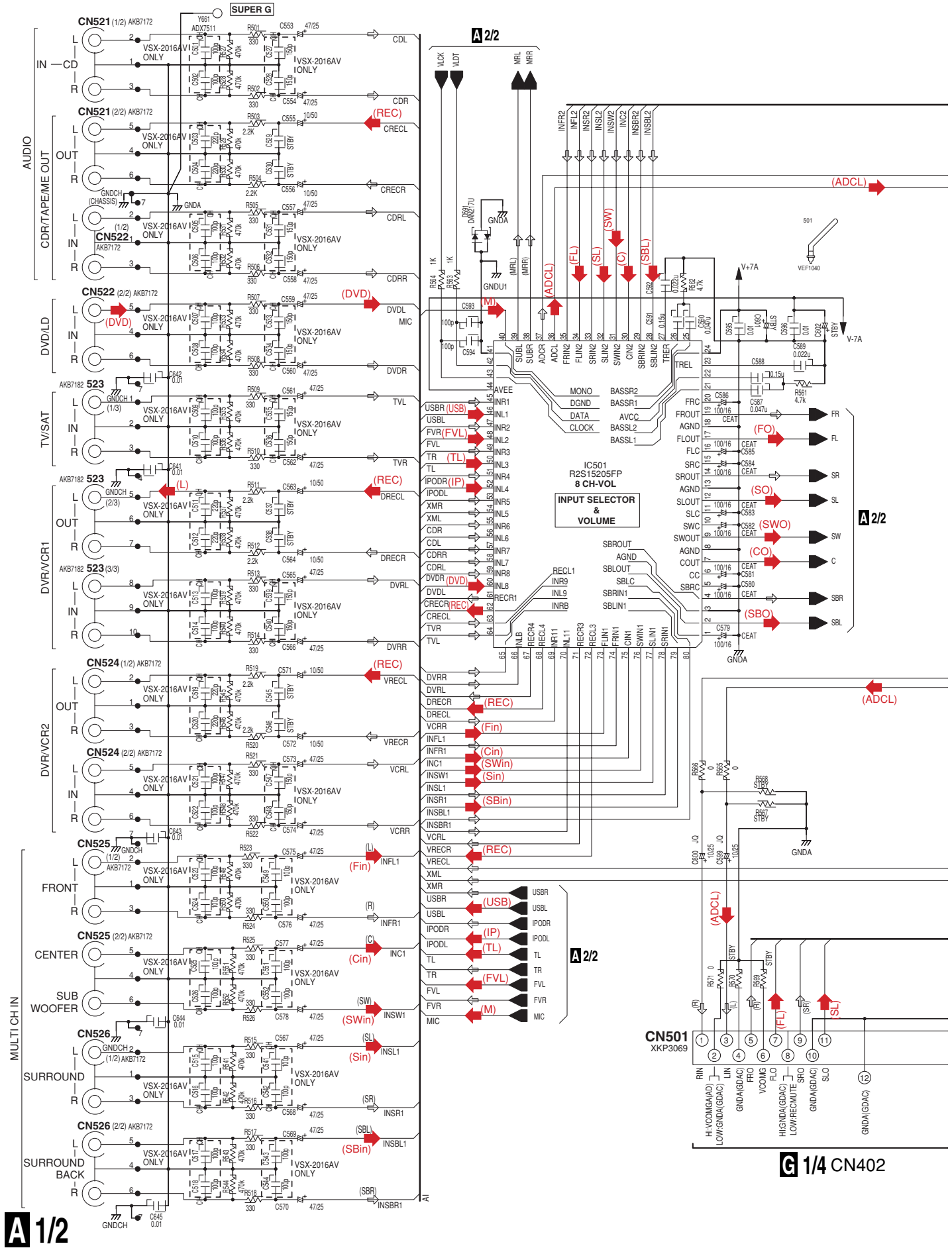
3.3 OVERALL WIRING DIAGRAM



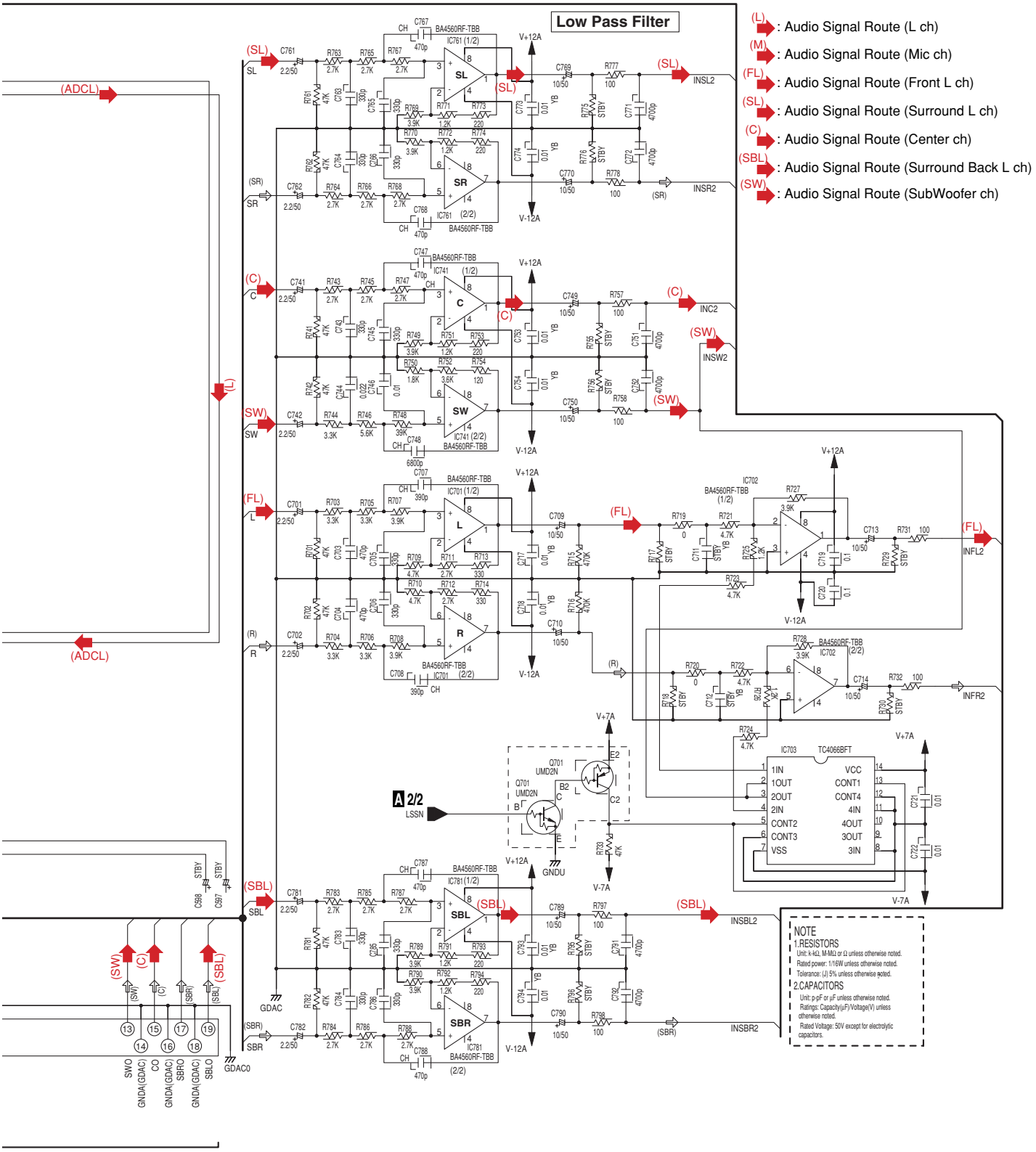
- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- : The power supply is shown with the marked box.



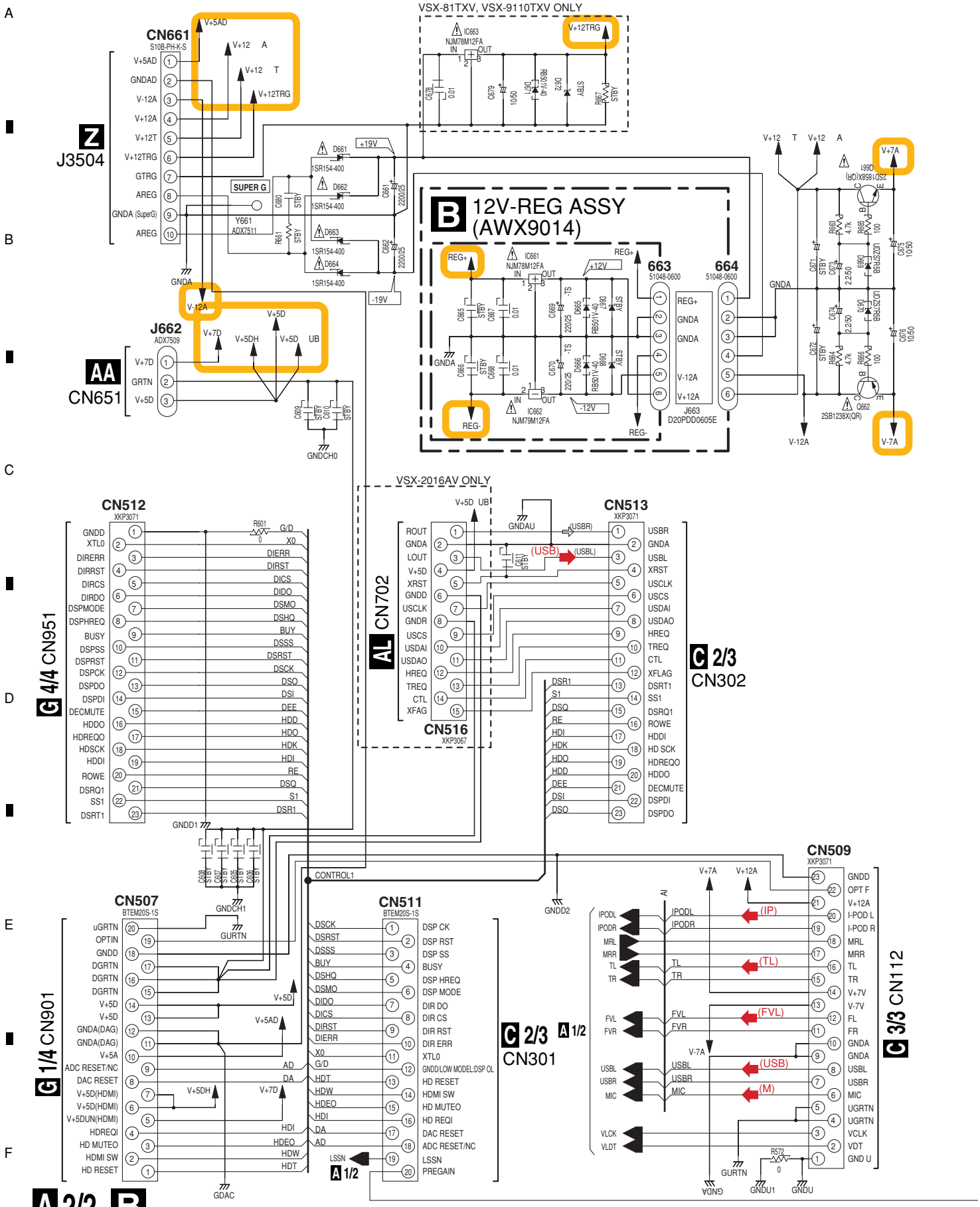
3.4 AUDIO IN ASSY (1/2)



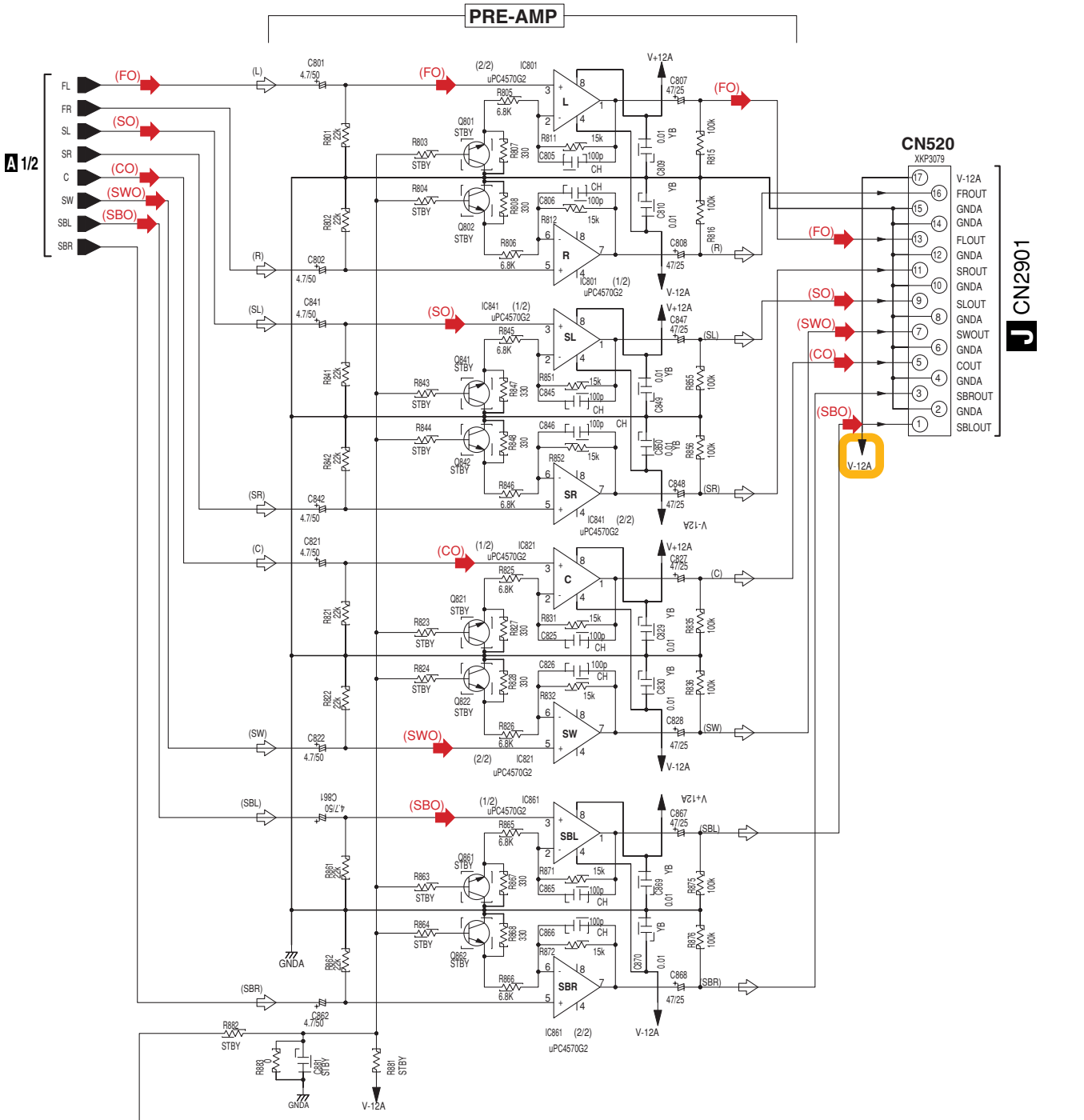
A 1/2 AUDIO IN ASSY
(VSX-2016AV : AWX9013)
(VSX-81TXV, VSX-9110TXV : AWX9012)



3.5 AUDIO IN (2/2) and 12V-REG ASSYS



A 2/2 AUDIO IN ASSY
(VSX-2016AV : AWX9013)
(VSX-81TXV, VSX-9110TXV : AWX9012)



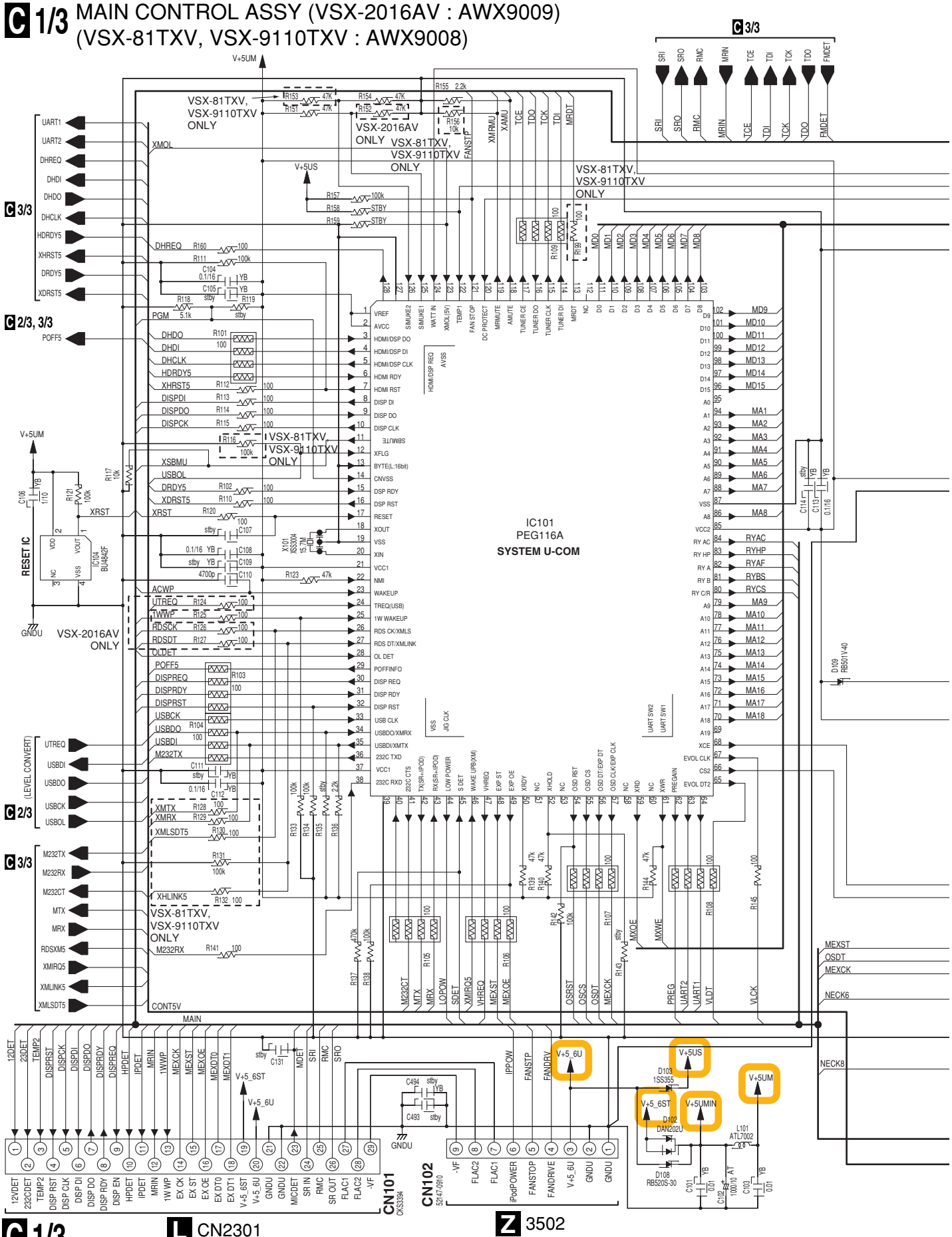
(L) : Audio Signal Route (L ch)
(M) : Audio Signal Route (Mic ch)
(FL) : Audio Signal Route (Front L ch)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center ch)
(SBL) : Audio Signal Route (Surround Back L ch)
(SW) : Audio Signal Route (SubWoofer ch)

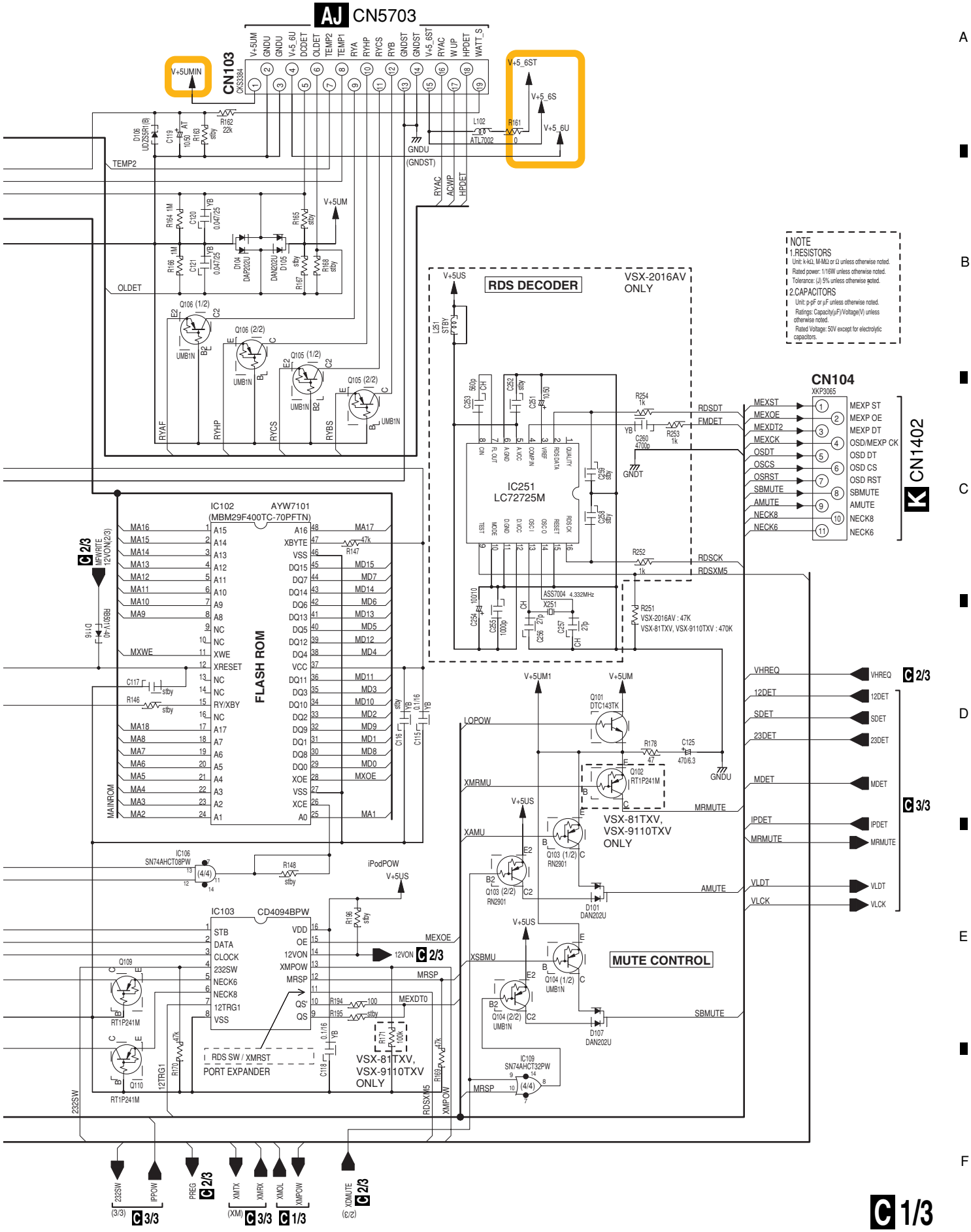
NOTE
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) 5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or µF unless otherwise noted.
Ratings: Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.

A 2/2

3.6 MAIN CONTROL ASSY (1/3)

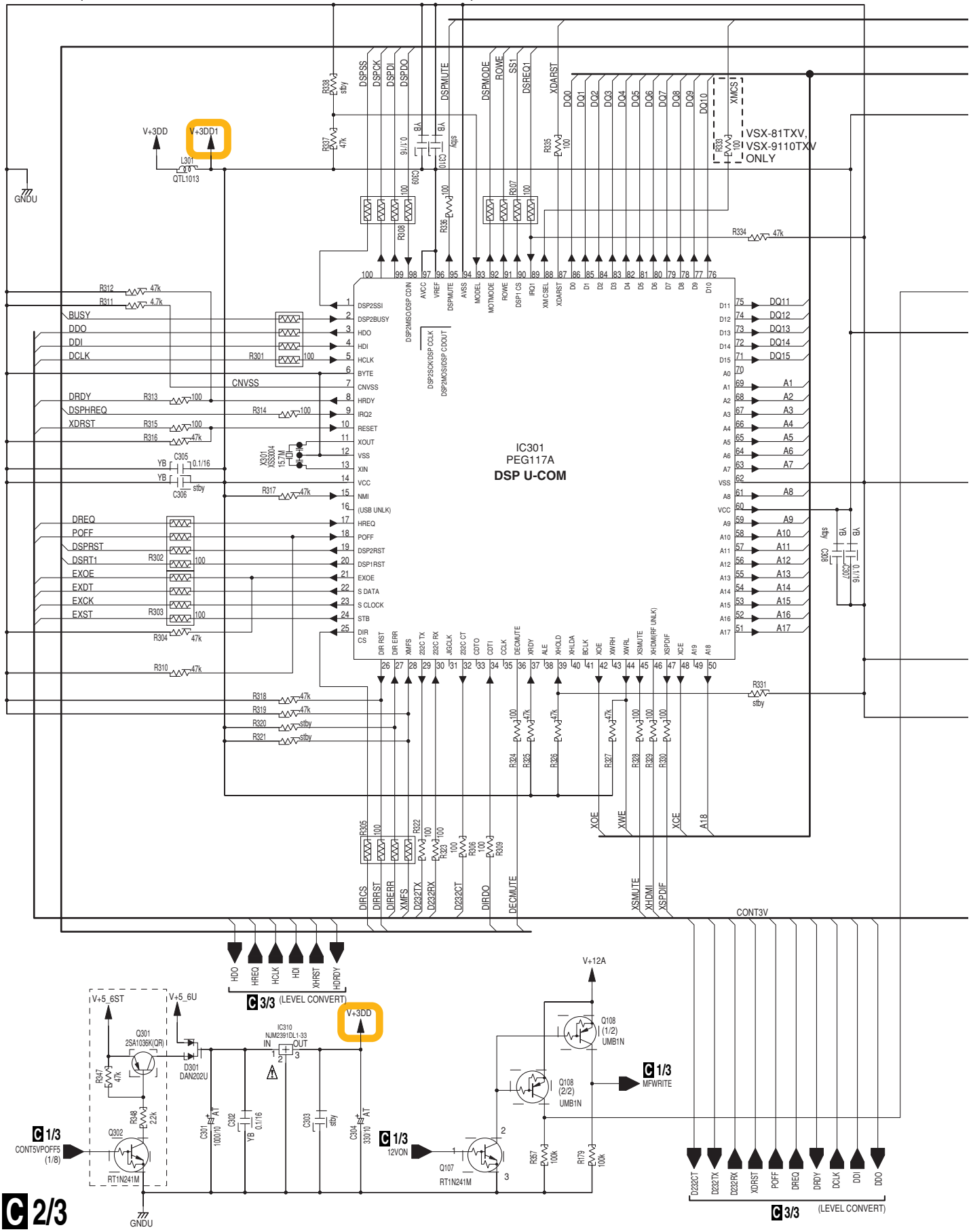
C 1/3 MAIN CONTROL ASSY (VSX-2016AV : AWX9009)
(VSX-81TXV, VSX-9110TXV : AWX9008)

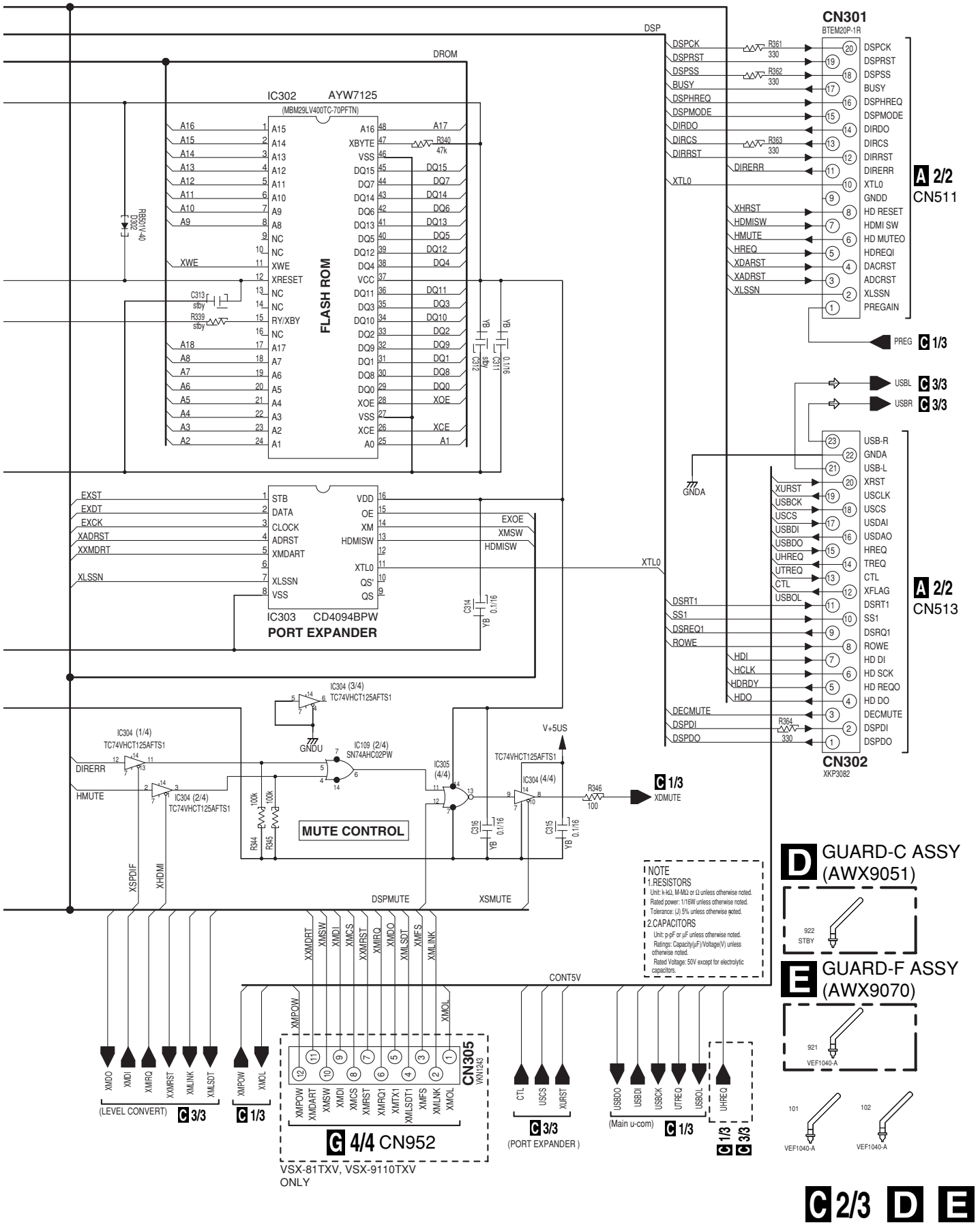



AJ CN5703
CN103
V+5UMIN
V+5_6ST
V+5_6S
V+5_6U
GNDU
(GNDST)
TEMP2
OLDET
RYAC
AOWP
HPDET
V+5UM
RYAF
RYHP
RYCS
RYBS
Q106 (1/2)
Q106 (2/2)
Q105 (1/2)
Q105 (2/2)
UMB1N
NOTE
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) 5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or µF unless otherwise noted.
Ratings: Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.
V+5US
RDS DECODER
VSX-2016AV ONLY
IC251
LC72725M
RDSDT
FMDET
RDSCK
RDSXM5
CN104
XKP3065
CN1402
K
MEXP ST
MEXP OE
MEXP DT
OSD/MEXP CK
OSD DT
OSD CS
OSD RST
SBMUTE
AMUTE
NECK8
NECK6
IC102
AYW7101
(MBM29F400TC-70PFTN)
FLASH ROM
MAINROM
MPWRITE
12VON(2/3)
C 2/3
MXWE
IC106
SN74AHCT08PW
iPodPOW
IC103
CD4094BPW
PORT EXPANDER
RDS SW / XMRST
VSX-81TXV, VSX-9110TXV ONLY
MEXOE
12VON
MRSP
MEXDT0
12TRG1
232SW
IPPOW
PREG
XMTX
XMRX
XMOL
XMPOW
XDMUTE
(3/3)
C 3/3
(XM)
C 1/3
(c/z)
V+5UM1
LOPOW
XMRMU
XAMU
XSBMU
Q101 DTC143TK
Q102 RT1P241M
Q103 (1/2) RN2901
Q103 (2/2) RN2901
Q104 (1/2) UMB1N
Q104 (2/2) UMB1N
D101 DAN202U
D107 DAN202U
MRMUTE
AMUTE
SBMUTE
MUTE CONTROL
VSX-81TXV, VSX-9110TXV ONLY
IC109
SN74AHCT32PW
VHREQ
12DET
SDET
23DET
MDET
IPDET
MRMUTE
VLDT
VLCK
C 2/3
C 3/3
C 1/3

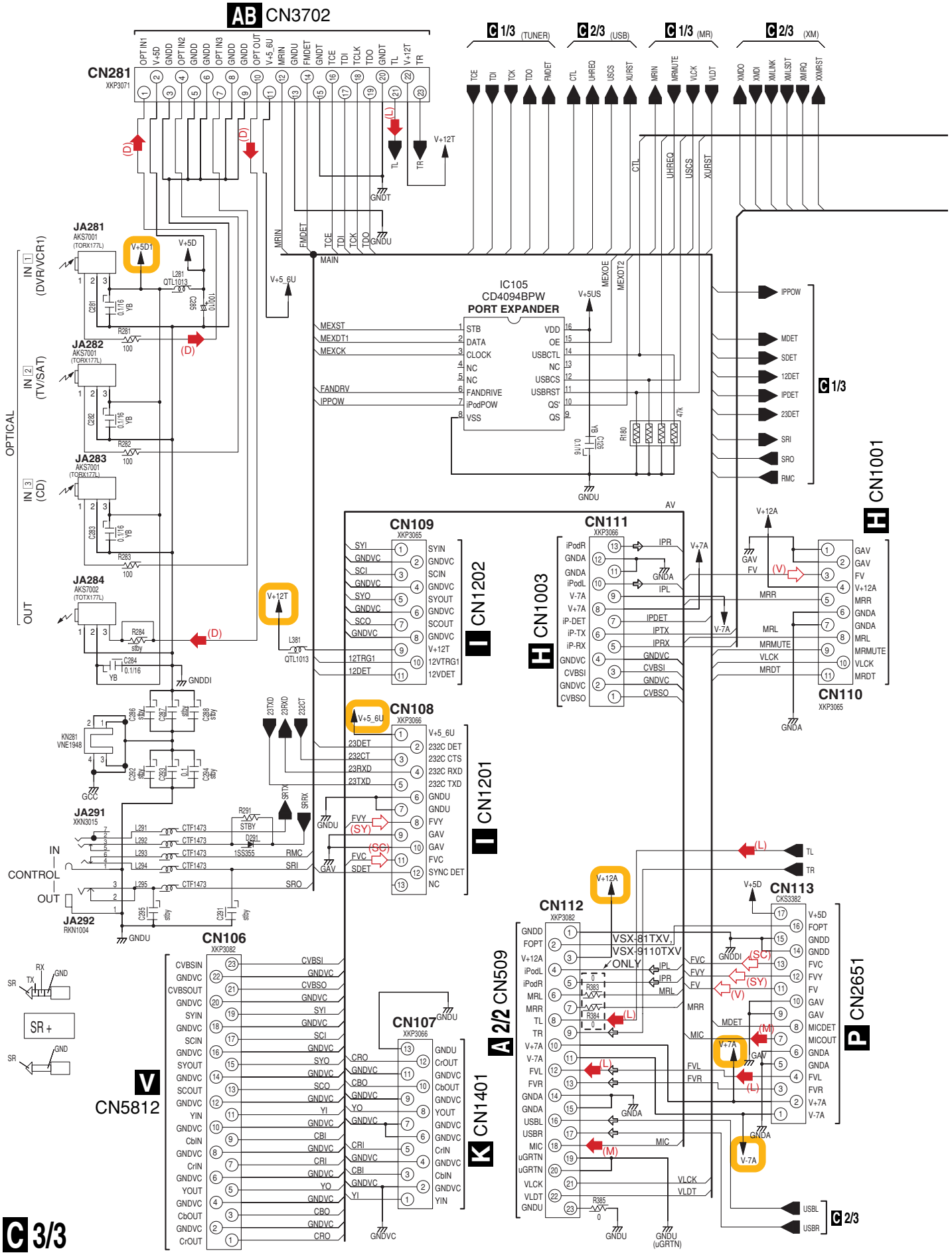
3.7 MAIN CONTROL (2/3), GUARD-C and GUARD-F ASSYS

C 2/3 MAIN CONTROL ASSY (VSX-2016AV : AWX9009)
(VSX-81TXV, VSX-9110TXV : AWX9008)

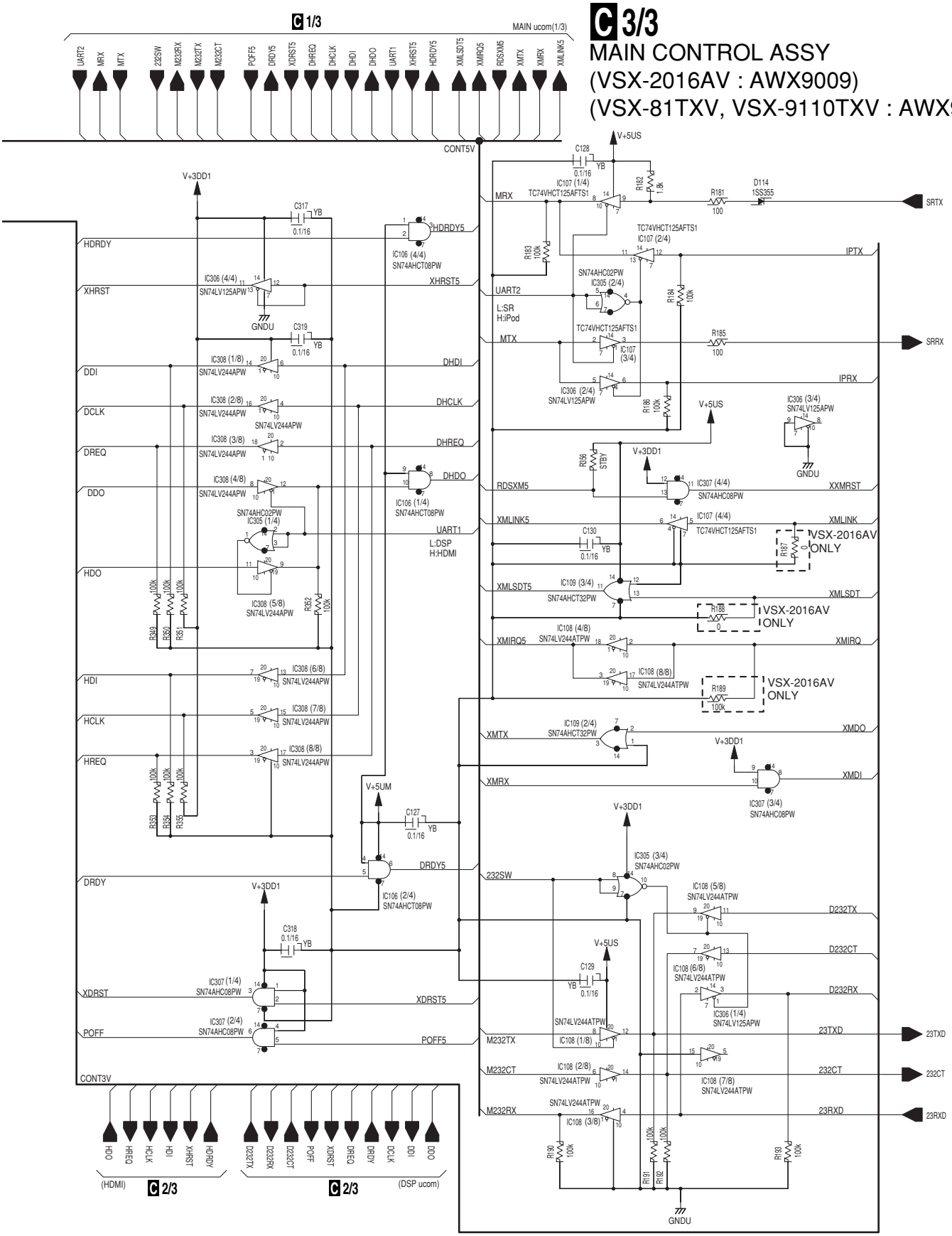



CN301
BTEM20P-1R
DSP
DSPCK
DSPRST
DSPSS
BUSY
DSPHREQ
DSPMODE
DIRDO
DIRCS
DIRRST
DIRERR
XTL0
XHRST
HDMISW
HMUTE
HREQ
XDARST
XADRST
XLSSN
PREGAIN
A 2/2
CN511
PREG
C 1/3
DROM
IC302 AYW7125
(MBM29LV400TC-70PFTN)
FLASH ROM
RBR01V40
D202
C313
stby
R339
stby
C312
stby
C311
0.1/16
YB
IC303 CD4094BPW
PORT EXPANDER
STB
DATA
CLOCK
ADRST
XMDART
XLSSN
VSS
VDD
OE
XM
HDMISW
XTL0
QS'
QS
EXOE
XMSW
HDMISW
C314
0.1/16
YB
USBL
C 3/3
USBR
C 3/3
USB-R
GNDA
USB-L
XRST
USCLK
USCS
USDAI
USDAO
HREQ
TREQ
CTL
XFLAG
DSRT1
SS1
DSRQ1
ROWE
HD DI
HD SCK
HD REQO
HD DO
DECMUTE
DSPDI
DSPDO
A 2/2
CN513
CN302
XKP3082
IC304 (3/4)
TC74VHCT125AFTS1
GNDU
IC304 (1/4)
TC74VHCT125AFTS1
DIRERR
HMUTE
IC304 (2/4)
TC74VHCT125AFTS1
IC109 (2/4)
SN74AHC02PW
IC305 (4/4)
TC74VHCT125AFTS1
IC304 (4/4)
V+5US
R346
100
C 1/3
XDMUTE
100k
100k
R344
R345
MUTE CONTROL
C316
0.1/16
YB
C315
0.1/16
YB
XSPDIF
XHDMI
DSPMUTE
XSMUTE
NOTE
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) 5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or µF unless otherwise noted.
Ratings: Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.
D GUARD-C ASSY (AWX9051)
922
STBY
E GUARD-F ASSY (AWX9070)
921
VEF1040-A
XMDO
XMDI
XMIRQ
XXMRST
XMLINK
XMLSDT
(LEVEL CONVERT)
C 3/3
XMPOW
XMOL
C 1/3
XMDART
XMSW
XMDI
XMCS
XXMRST
XMIRQ
XMDO
XML SDT
XMFS
XMLINK
XMOL
CONT5V
CN305
VKN1243
XMPOW
XMDART
XMSW
XMDI
XMCS
XMRST
XMRQ1
XMTX1
XMLSDT1
XMFS
XMLNK
XMOL
G 4/4 CN952
VSX-81TXV, VSX-9110TXV
ONLY
CTL
USCS
XURST
C 3/3
(PORT EXPANDER)
USBDO
USBDI
USBCK
UTREQ
USBOL
(Main u-com)
C 1/3
UHREQ
C 1/3
C 3/3
101
102
VEF1040-A
VEF1040-A
C 2/3 D E

3.8 MAIN CONTROL ASSY (3/3)



C 3/3
MAIN CONTROL ASSY
(VSX-2016AV : AWX9009)
(VSX-81TXV, VSX-9110TXV : AWX9008)

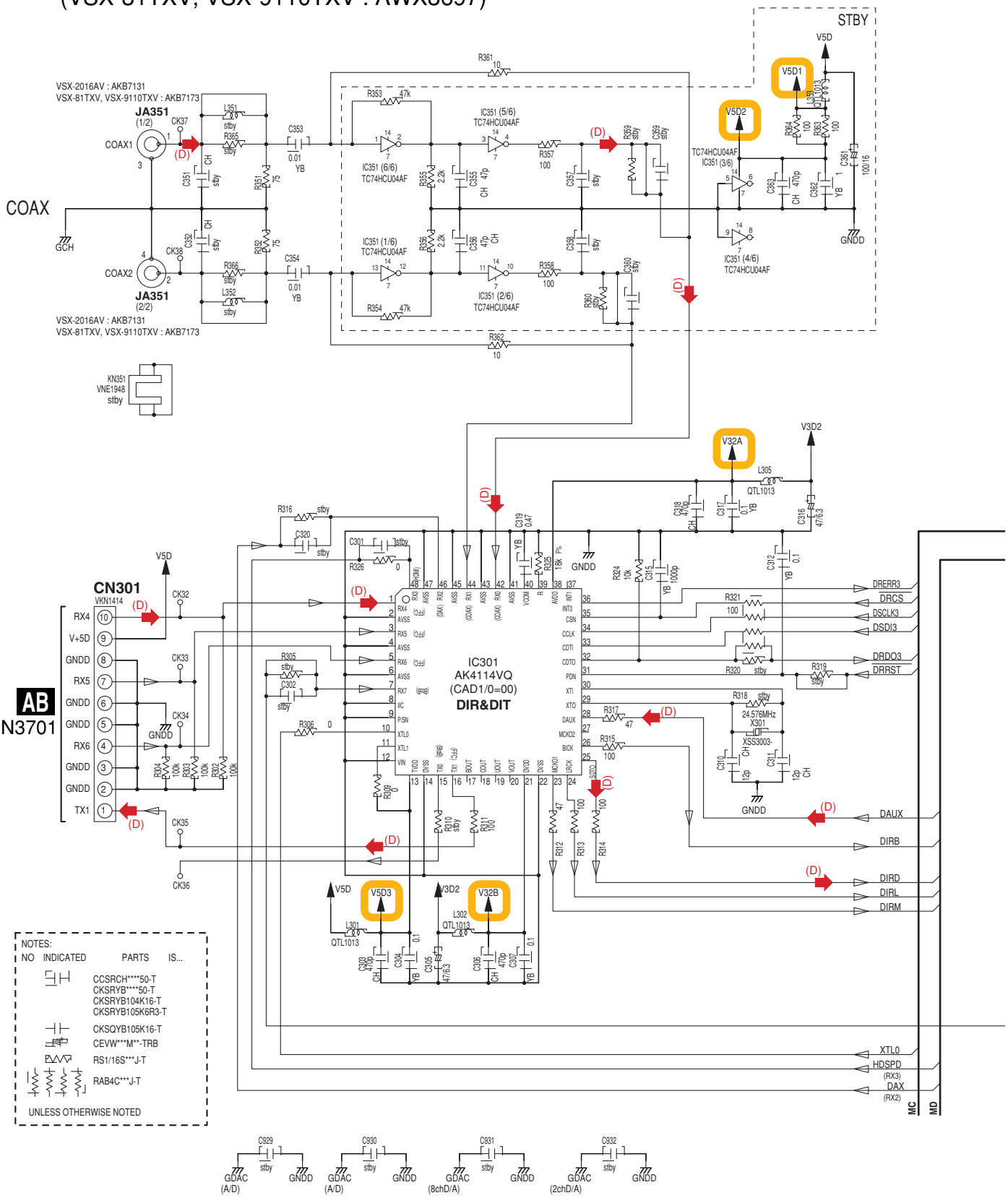


(L) : Audio Signal Route (L ch)
(M) : Audio Signal Route (Mic ch)
(D) : Audio Data Route
(V) : Video Signal Route
(SY) : S-Video Signal Route (Y ch)
(SC) : S-Video Signal Route (C ch)

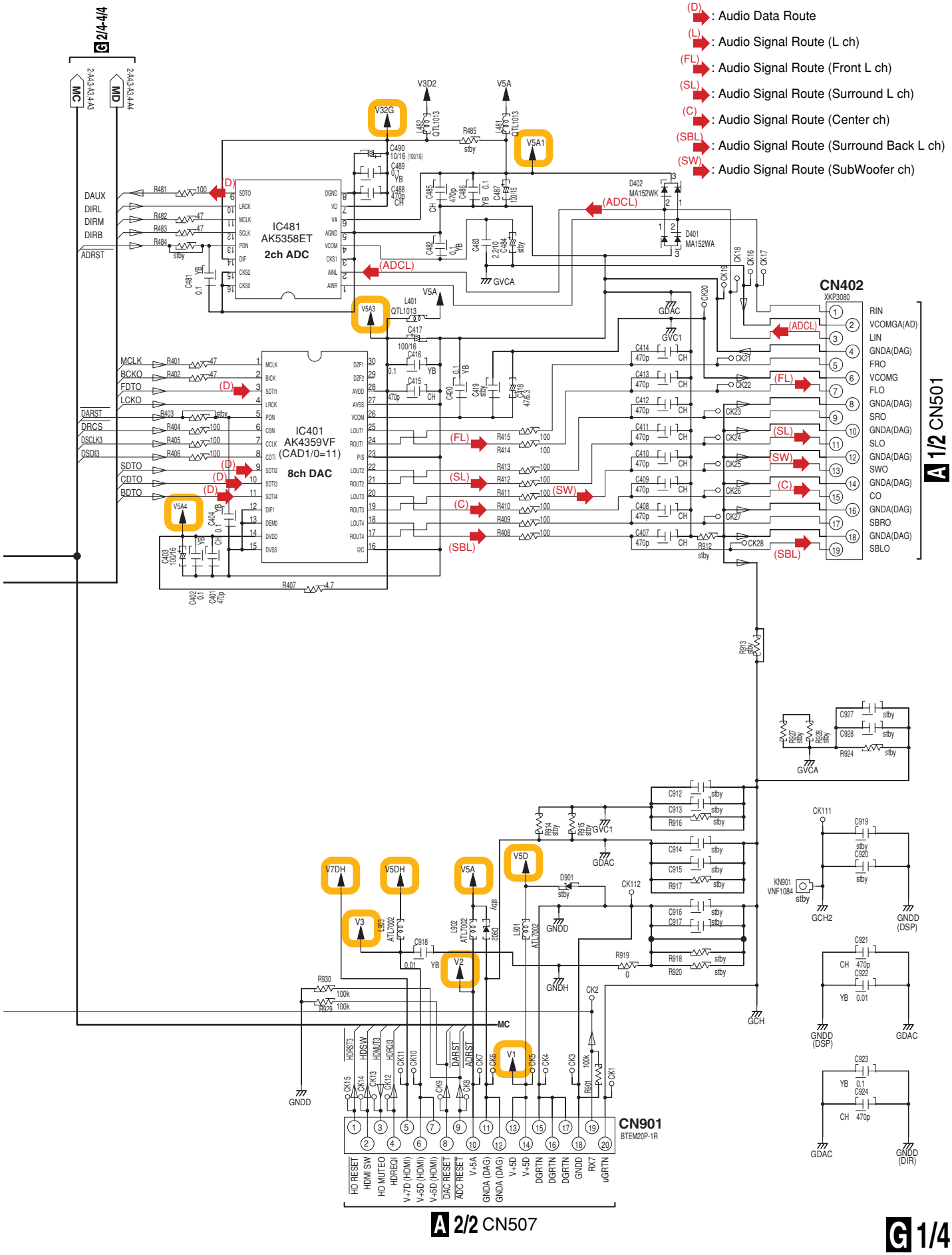
C 3/3

3.9 DSP ASSY (1/4)

G 1/4 DSP ASSY
(VSX-2016AV : AWX8698)
(VSX-81TXV, VSX-9110TXV : AWX8697)

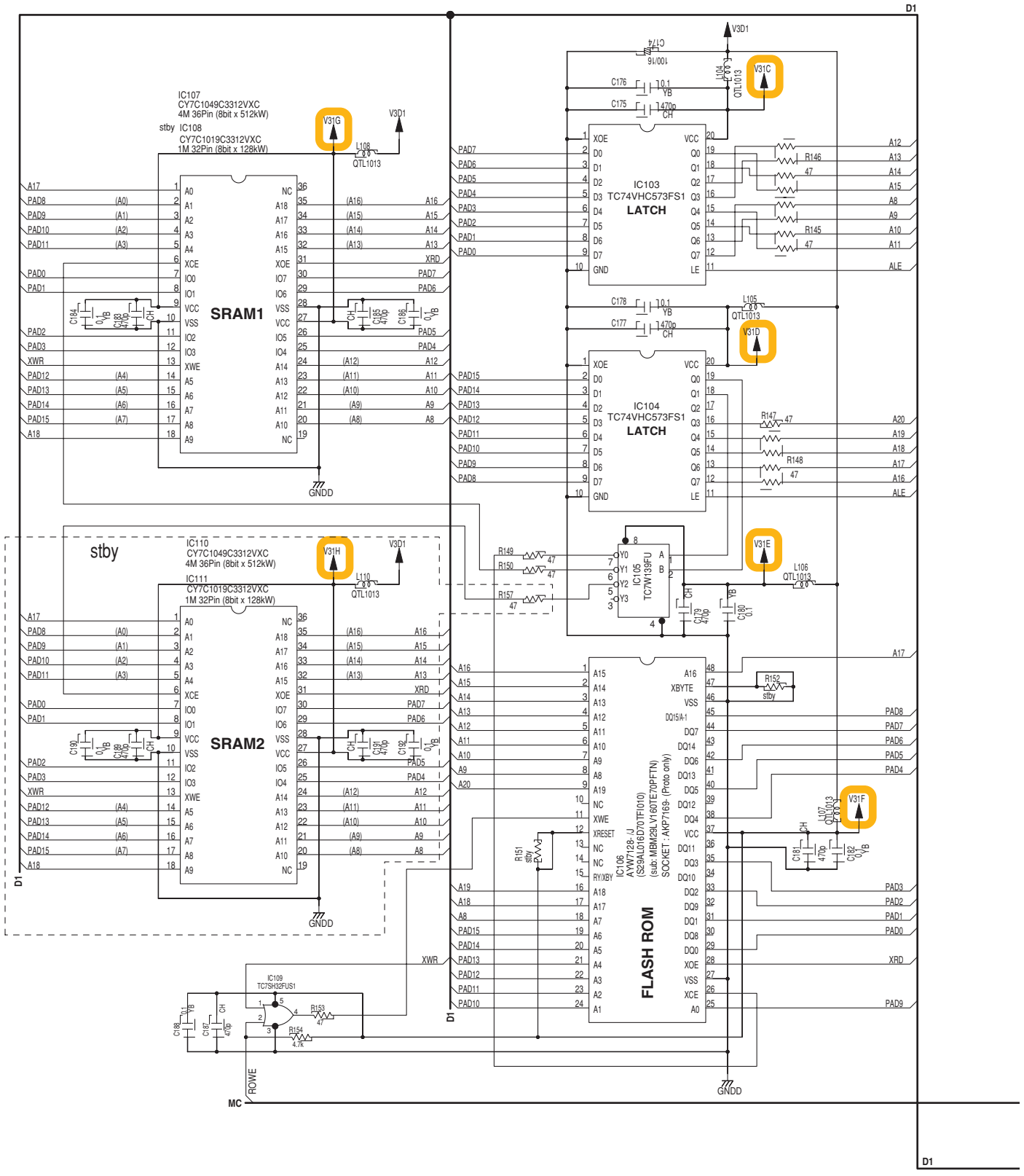


G 1/4


(D) : Audio Data Route
(L) : Audio Signal Route (L ch)
(FL) : Audio Signal Route (Front L ch)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center ch)
(SBL) : Audio Signal Route (Surround Back L ch)
(SW) : Audio Signal Route (SubWoofer ch)
G 2/4-4/4
IC481 AK5358ET 2ch ADC
IC401 AK4359VF (CAD1/0=11) 8ch DAC
CN402 XKP3080
RIN
VCOMGA(AD)
LIN
GNDA(DAG)
FRO
VCOMG
FLO
GNDA(DAG)
SRO
GNDA(DAG)
SLO
GNDA(DAG)
SWO
GNDA(DAG)
CO
GNDA(DAG)
SBRO
GNDA(DAG)
SBLO
A 1/2 CN501
CN901 BTEM20P-1R
HD RESET
HDMI SW
HD MUTEO
HDREQI
V+7D (HDMI)
V+5D (HDMI)
V+5D (HDMI)
DAC RESET
ADC RESET
V+5A
GNDA (DAG)
GNDA (DAG)
V+5D
V+5D
DGRTN
DGRTN
DGRTN
GNDD
RX7
uGRTN
A 2/2 CN507
G 1/4

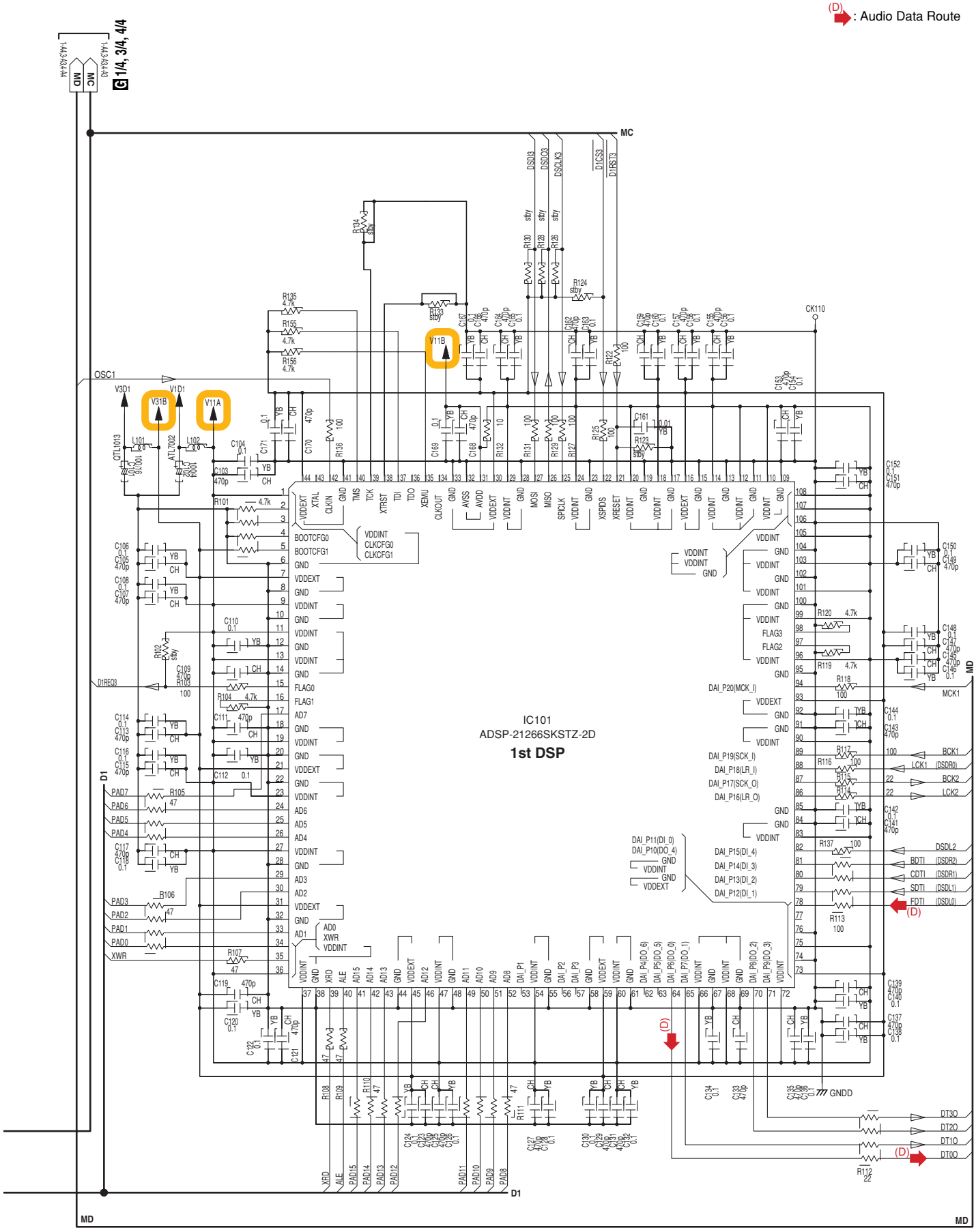
3.10 DSP ASSY (2/4)

G 2/4 DSP ASSY
(VSX-2016AV : AWX8698)
(VSX-81TXV, VSX-9110TXV : AWX8697)



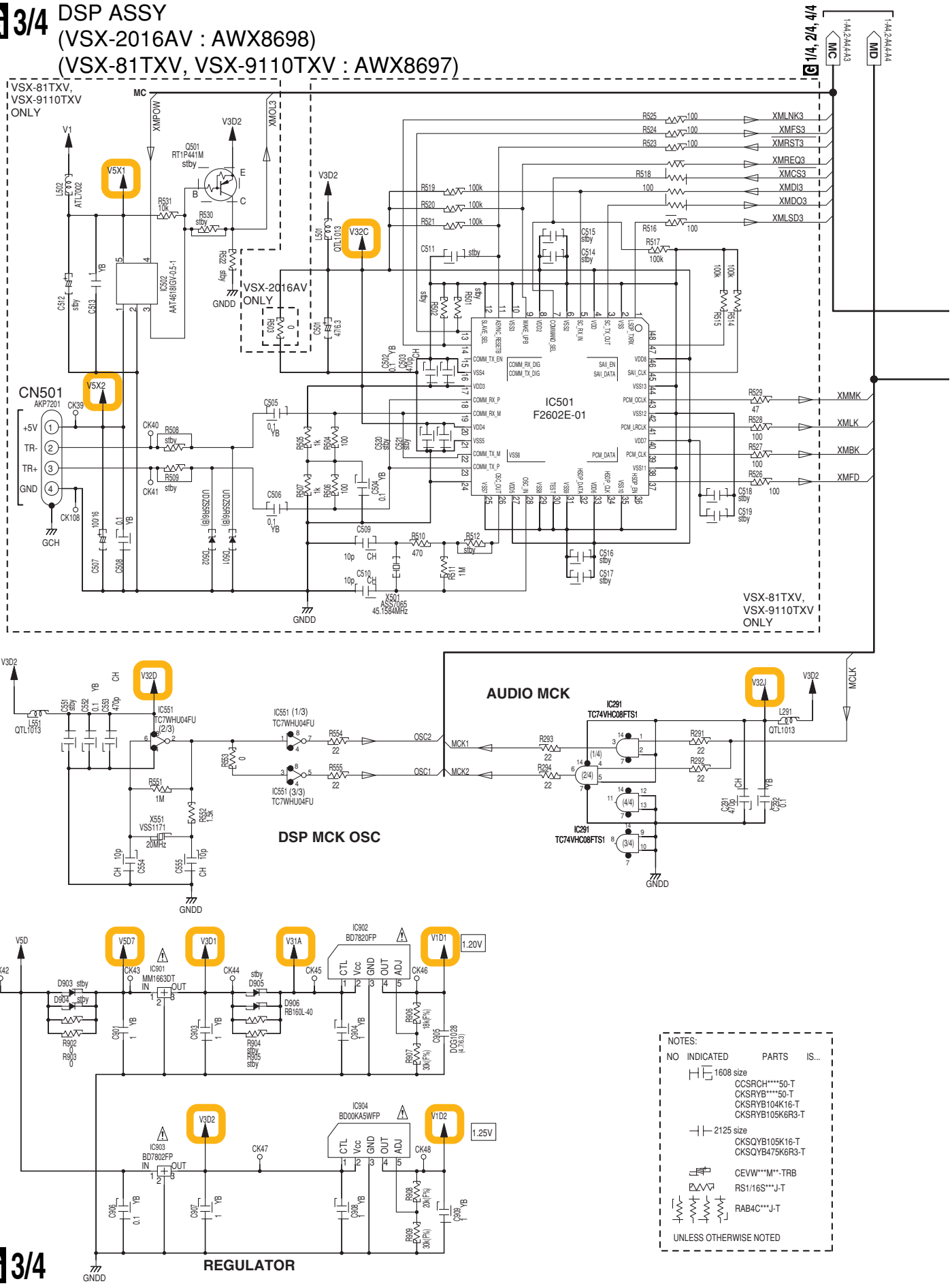
G 2/4

(D): Audio Data Route



3.11 DSP ASSY (3/4)

G 3/4 DSP ASSY
(VSX-2016AV : AWX8698)
(VSX-81TXV, VSX-9110TXV : AWX8697)

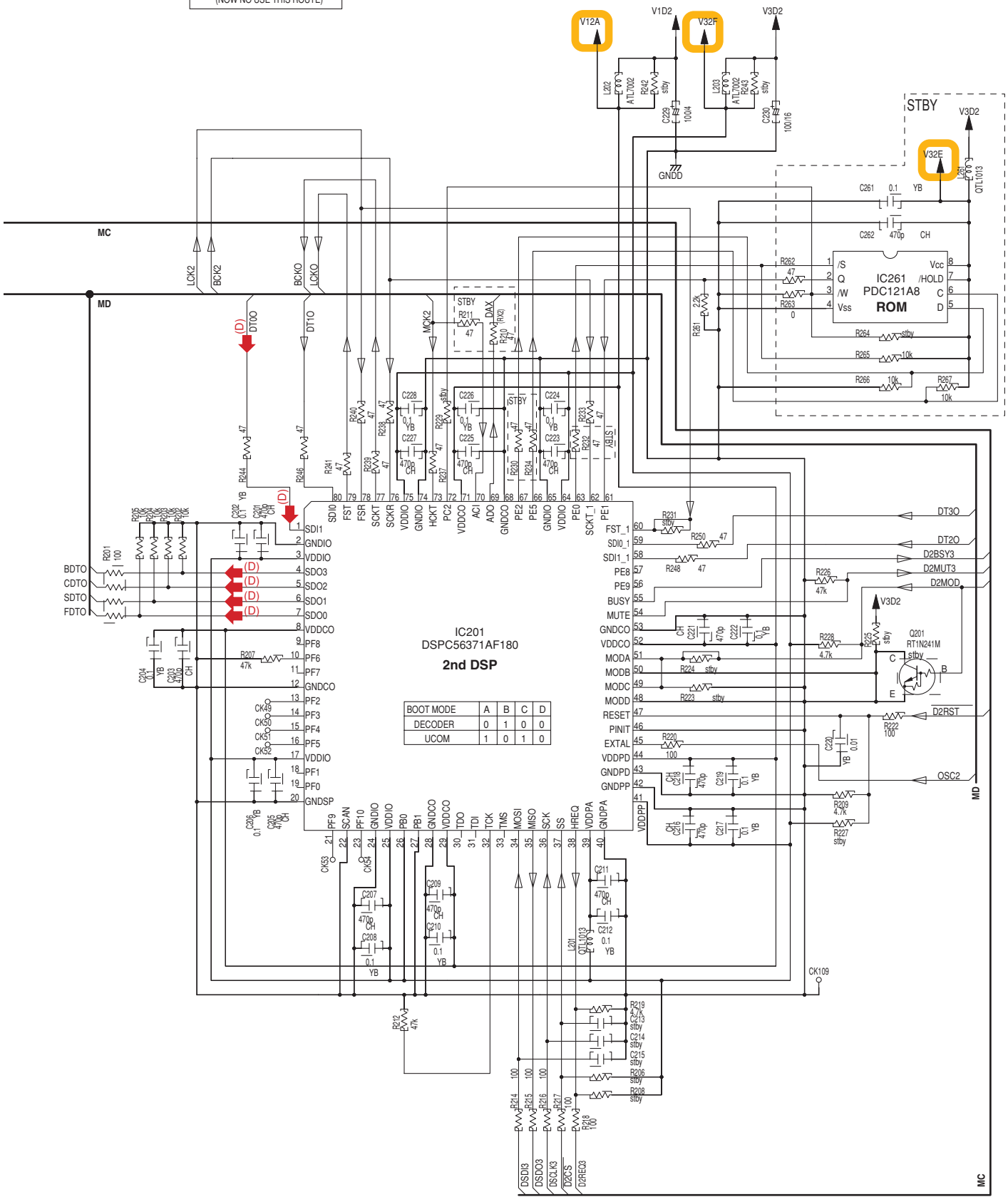


NOTES:
NO INDICATED PARTS IS...
- 1608 size: CCSRCH****50-T, CKSRYB****50-T, CKSRYB104K16-T, CKSRYB105K6R3-T
- 2125 size: CKSQYB105K16-T, CKSQYB475K6R3-T
- CEVW***M**-TRB
- RS1/16S***J-T
- RAB4C***J-T

UNLESS OTHERWISE NOTED

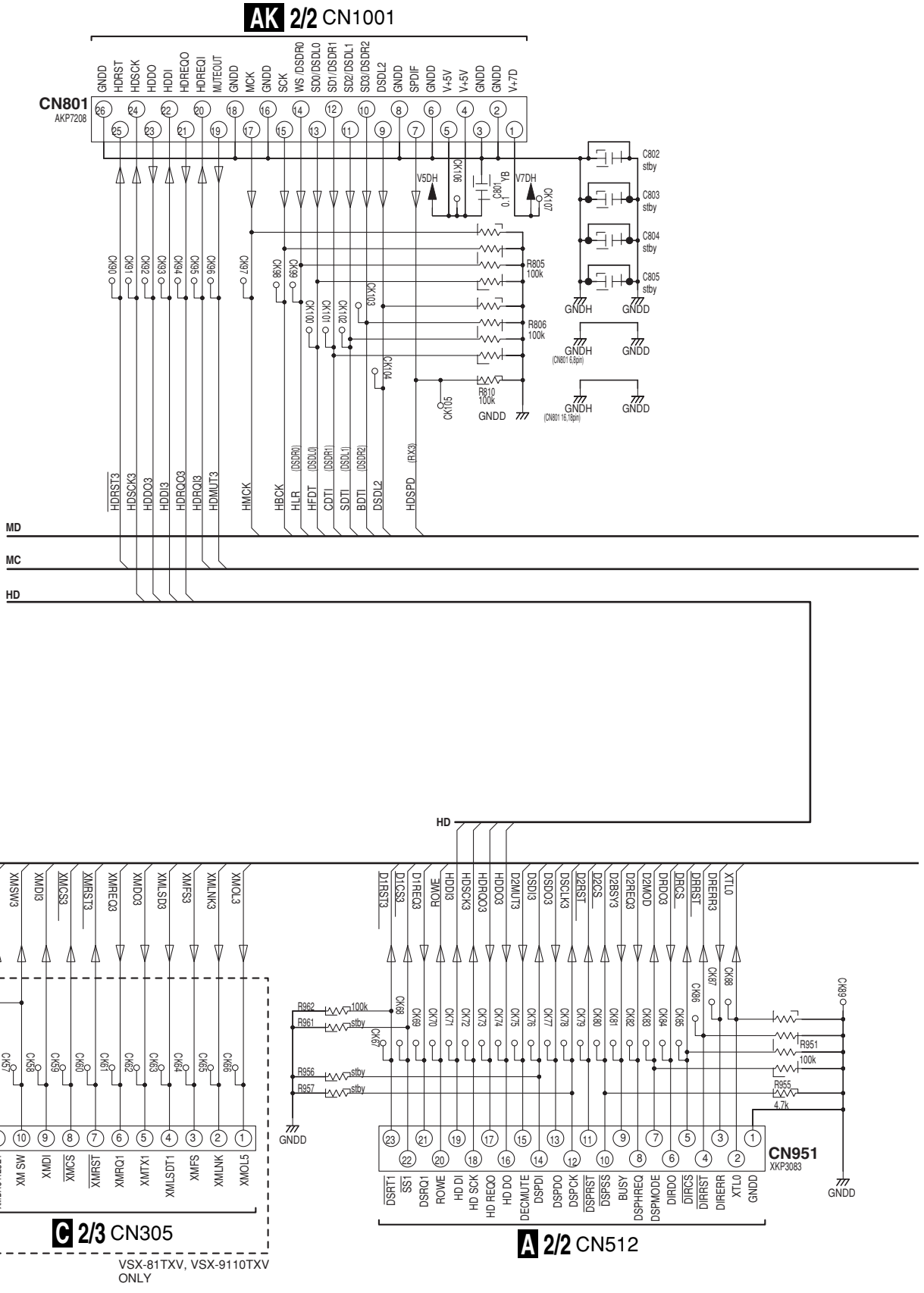
(D): Audio Data Route

** AROUND R247
The corrective is not "CDTI" but "SDTI".
But now the connection of PCB is like this.
If this route is used, it should correct the PCB.
(NOW NO USE THIS ROUTE)



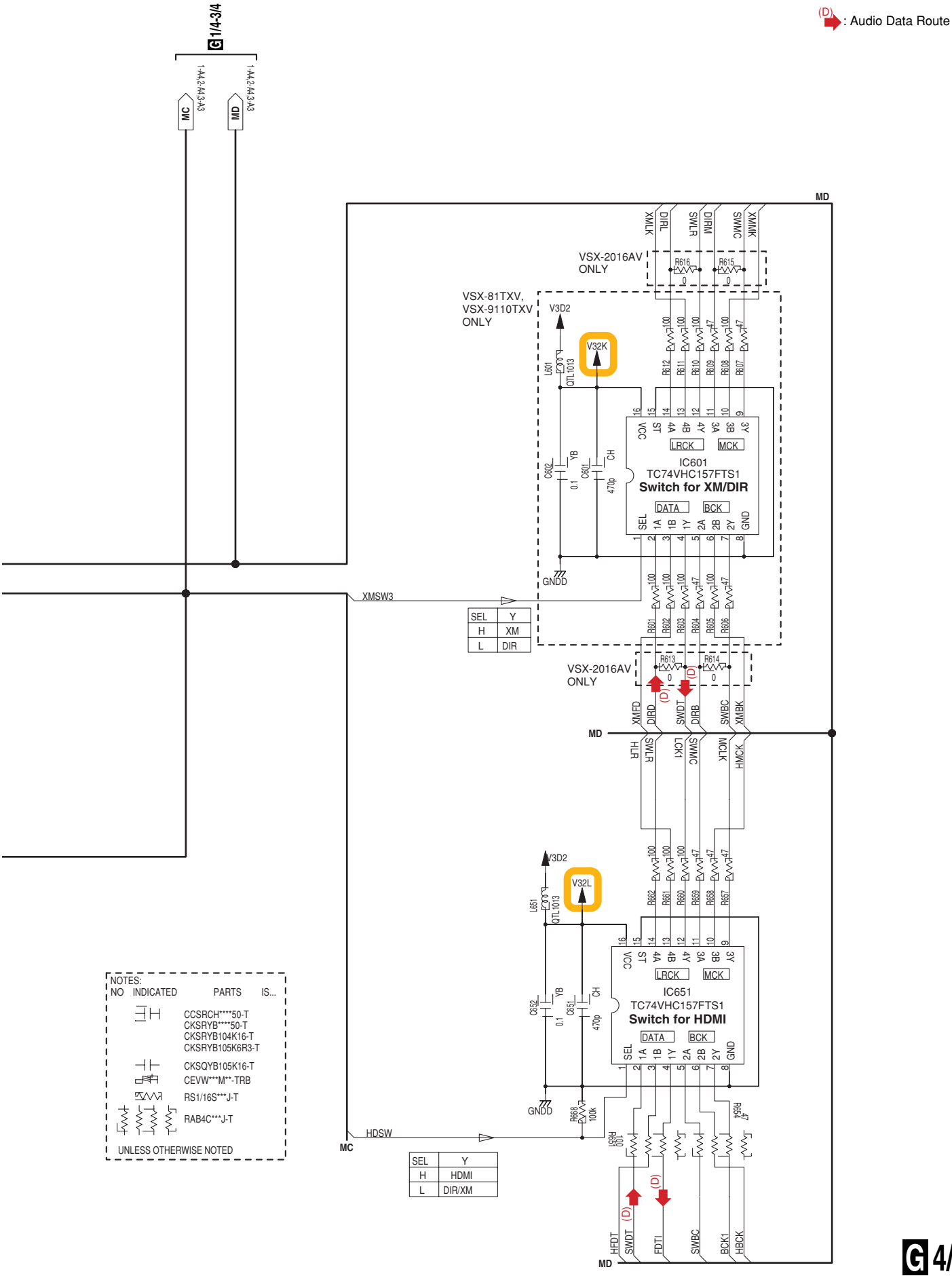
3.12 DSP ASSY (4/4)

G 4/4 DSP ASSY
(VSX-2016AV : AWX8698)
(VSX-81TXV, VSX-9110TXV : AWX8697)


AK 2/2 CN1001
CN801
AKP7208
GNDD HDRST HDSCK HDDO HDDI HDREQO HDREQI MUTEOUT GNDD MCK GNDD SCK WS /DSDR0 SDO/DSDL0 SD1/DSDR1 SD2/DSDL1 SD3/DSDR2 DSDL2 GNDD SPDIF GNDD V+5V V+5V GNDD GNDD V+7D
V5DH
V7DH
C801 0.1
C802 stby
C803 stby
C804 stby
C805 stby
R805 100k
R806 100k
R810 100k
GNDH
GNDD
(CN801 6,8pin)
(CN801 16,18pin)
HDRST3 HDSCK3 HDDO3 HDDI3 HDREQO3 HDREQI3 HDMUT3 HMCK HBCK HLR (DSDR0) HFDT (DSDL0) CDTI (DSDR1) SDTI (DSDL1) BDTI (DSDR2) DSDL2 HDSPD (RX3)
MD
MC
HD
HD
MC
XMPOW XMDRS XMSW3 XMDI3 XMCS3 XMRST3 XMREQ3 XMDO3 XMLSD3 XMFS3 XMLNK3 XMOL3
R964 100k
GNDD
CN952
VKN1416
XMPOW XMDAC RESET XM SW XMDI XMCS XMRST XMRQ1 XMTX1 XMLSDT1 XMFS XMLNK XMOL5
C 2/3 CN305
VSX-81TXV, VSX-9110TXV ONLY
D1RST3 D1CS3 D1REQ3 ROWE HDDI3 HDSCK3 HDRQO3 HDDO3 D2MUT3 DSDI3 DSDO3 DSCLK3 D2RST D2CS D2BSY3 D2REQ3 D2MOD DRDO3 DRCS DRBST DRERR3 XTL0
R962 100k
R961 stby
R956 stby
R957 stby
R951 100k
R955 4.7k
GNDD
CN951
XKP3083
DSRT1 SS1 DSRQ1 ROWE HD DI HD SCK HD REQO HD DO DECMUTE DSPDI DSPDO DSPCK DSPRST DSPSS BUSY DSPHREQ DSPMODE DIRDO DIRCS DIRRST DIRERR XTL0 GNDD
A 2/2 CN512

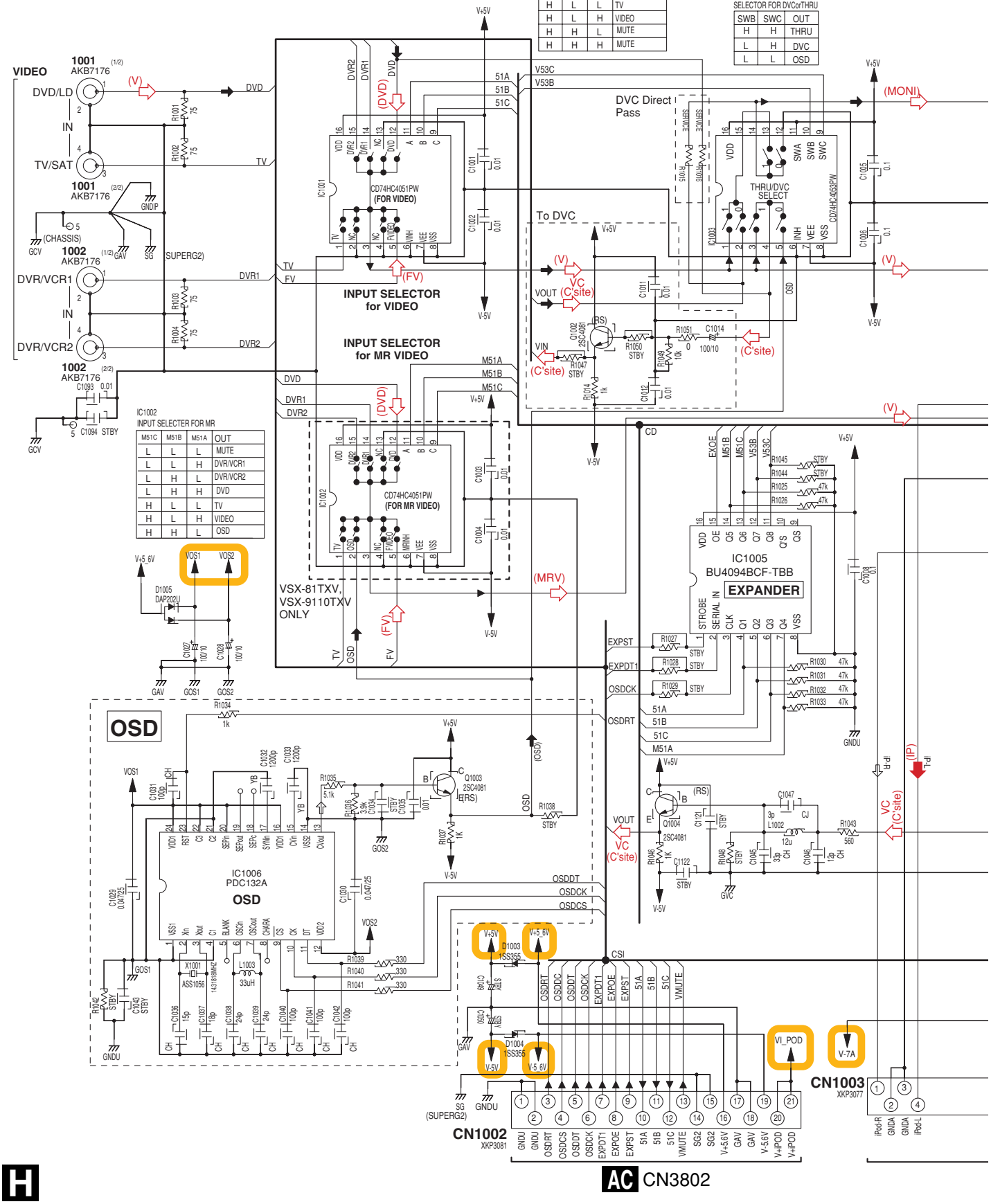
G 4/4

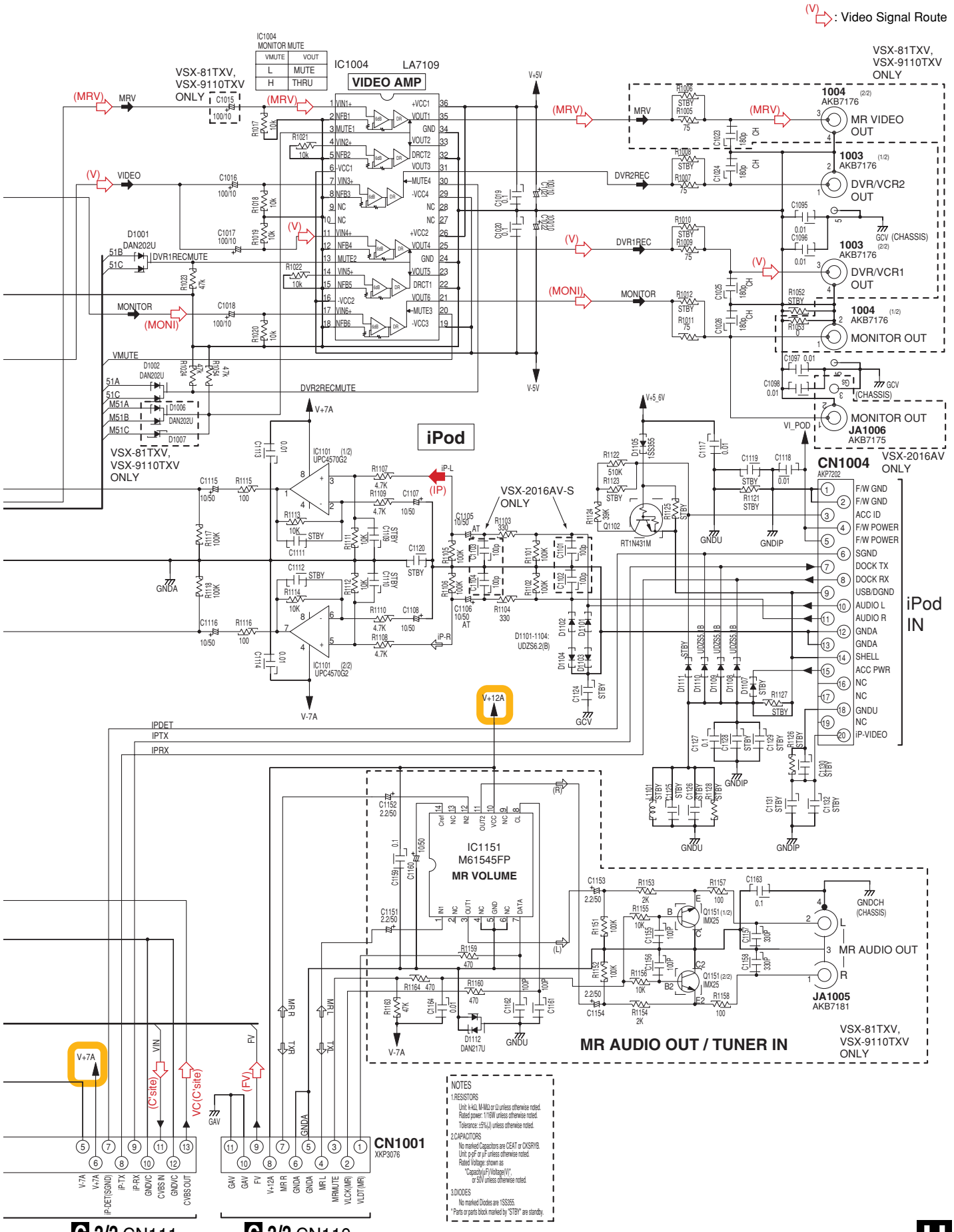
(D): Audio Data Route



3.13 COMPOSITE ASSY

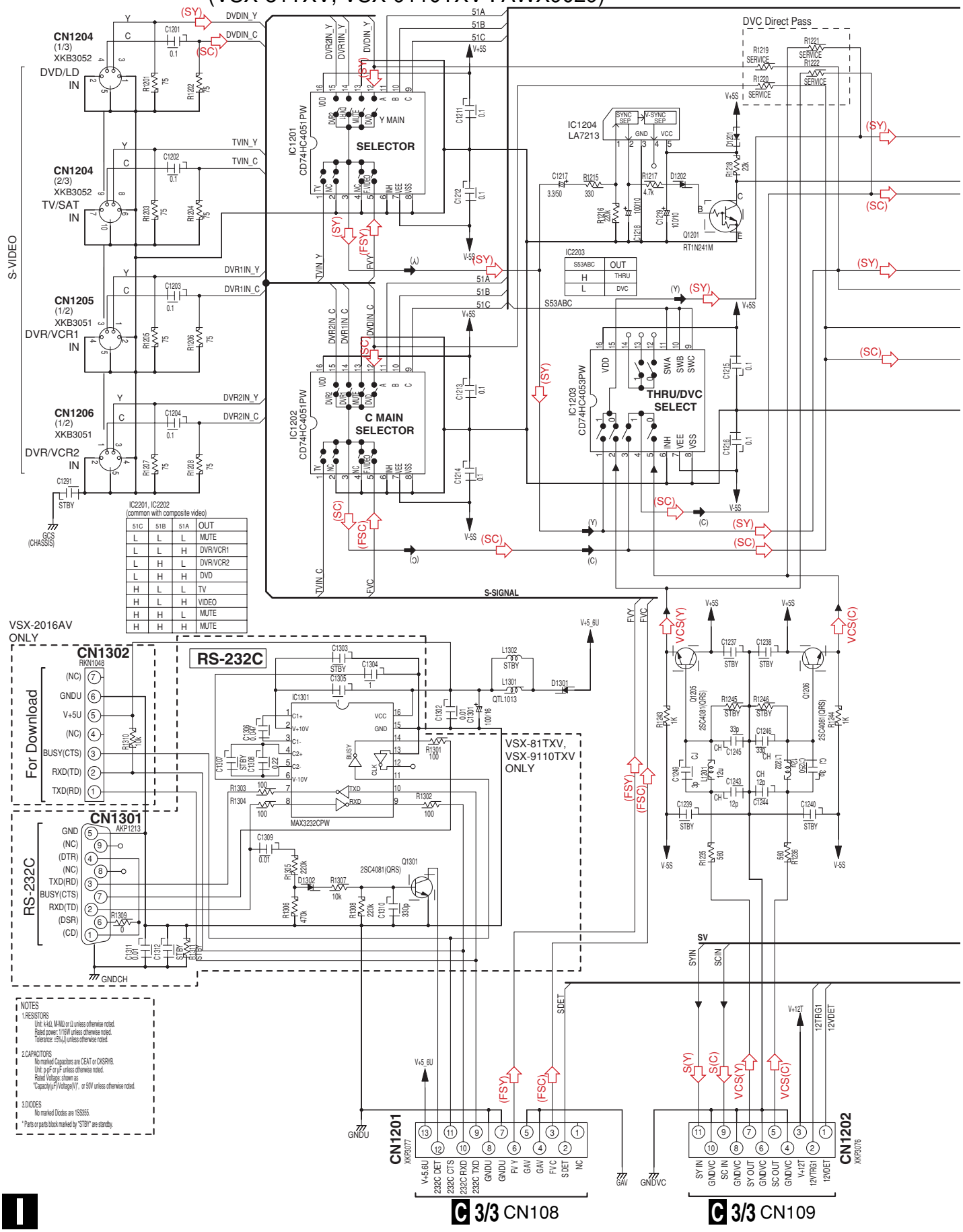
H COMPOSITE ASSY
(VSX-2016AV : AWX9028)
(VSX-81TXV, VSX-9110TXV : AWX9026)




(V): Video Signal Route
VSX-81TXV, VSX-9110TXV ONLY
IC1004 MONITOR MUTE
VMUTE | VOUT
L | MUTE
H | THRU
IC1004 LA7709
VIDEO AMP
MRV
VIDEO
MONITOR
(MONI)
DVR1RECMUTE
DVR2RECMUTE
DVR2REC
DVR1REC
VMUTE
1004 (2/2) AKB7176
MR VIDEO OUT
1003 (1/2) AKB7176
DVR/VCR2 OUT
1003 (2/2) AKB7176
DVR/VCR1 OUT
1004 (1/2) AKB7176
MONITOR OUT
MONITOR OUT JA1006 AKB7175
GCV (CHASSIS)
iPod
VSX-2016AV-S ONLY
CN1004 AKP7202
VSX-2016AV ONLY
F/W GND
F/W GND
ACC ID
F/W POWER
F/W POWER
SGND
DOCK TX
DOCK RX
USB/DGND
AUDIO L
AUDIO R
GNDA
GNDA
SHELL
ACC PWR
NC
NC
GNDU
NC
iP-VIDEO
iPod IN
IPDET
IPTX
IPRX
IC1151 M61545FP
MR VOLUME
MR AUDIO OUT / TUNER IN
JA1005 AKB7181
CN1001 XKP3076
C 3/3 CN111
C 3/3 CN110
NOTES
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.
2.CAPACITORS
No marked Capacitors are CEAT or CKSRYB.
Unit: p-pF or µ-µF unless otherwise noted.
Rated Voltage: shown as "Capacity(µF)/Voltage(V)", or 50V unless otherwise noted.
3.DIODES
No marked Diodes are 1SS355.
*Parts or parts block marked by "STBY" are standby.

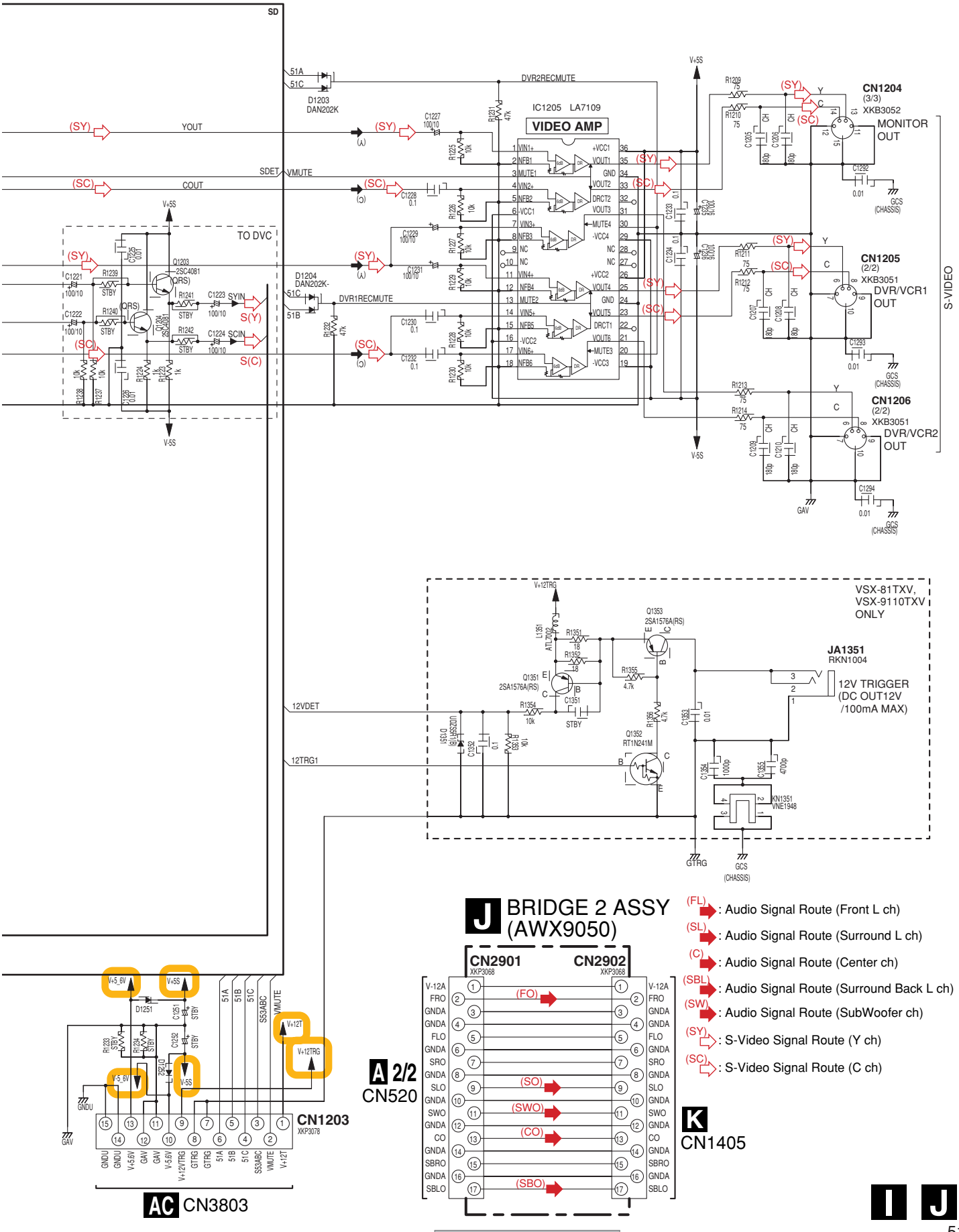
3.14 S-VIDEO and BRIDGE 2 ASSYS

S-VIDEO ASSY (VSX-2016AV : AWX9030)
(VSX-81TXV, VSX-9110TXV : AWX9029)



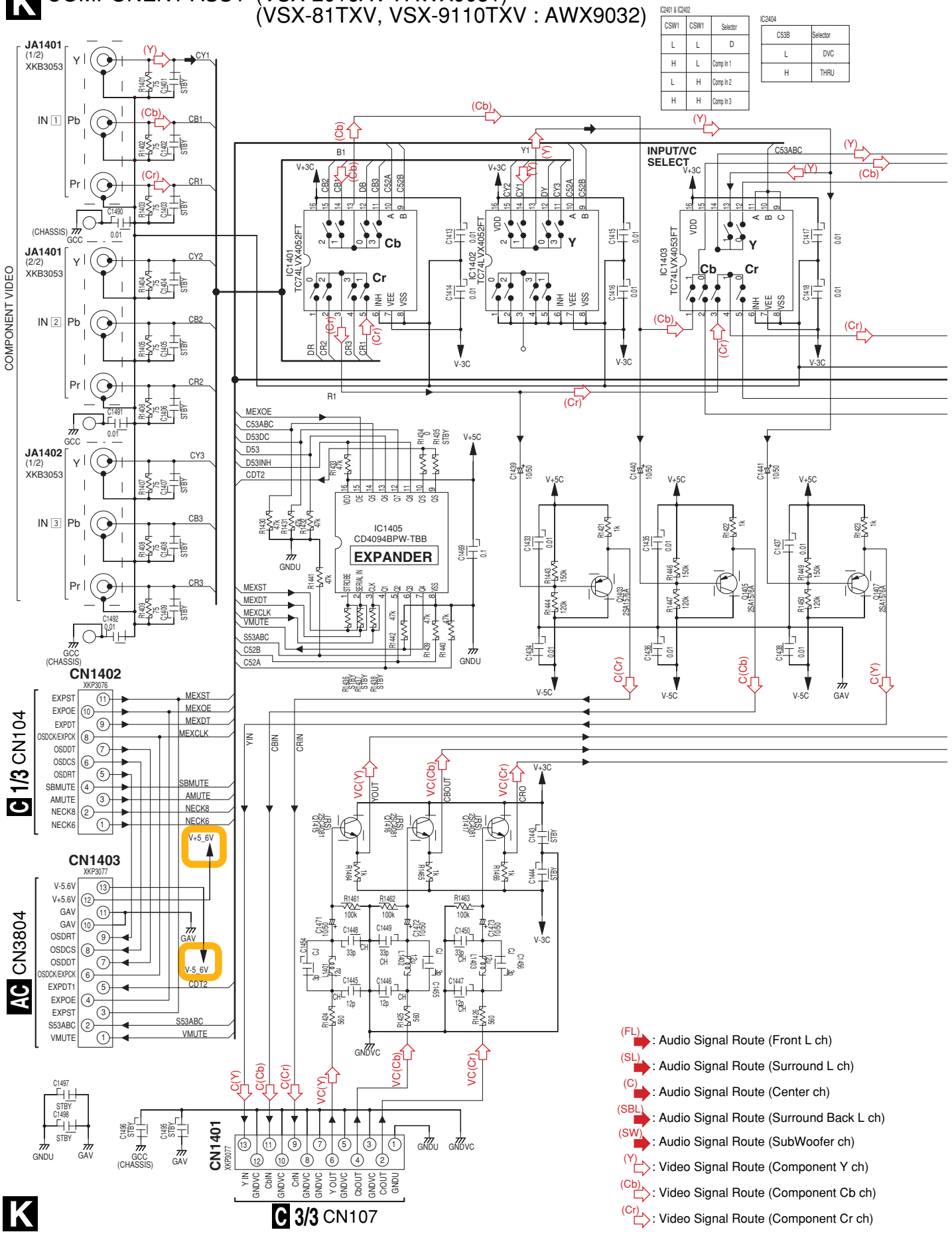
51C	51B	51A	OUT
L	L	L	MUTE
L	L	H	DVR/VCR1
L	H	L	DVR/VCR2
L	H	H	DVD
H	L	L	TV
H	L	H	VIDEO
H	L	L	MUTE
H	H	H	MUTE

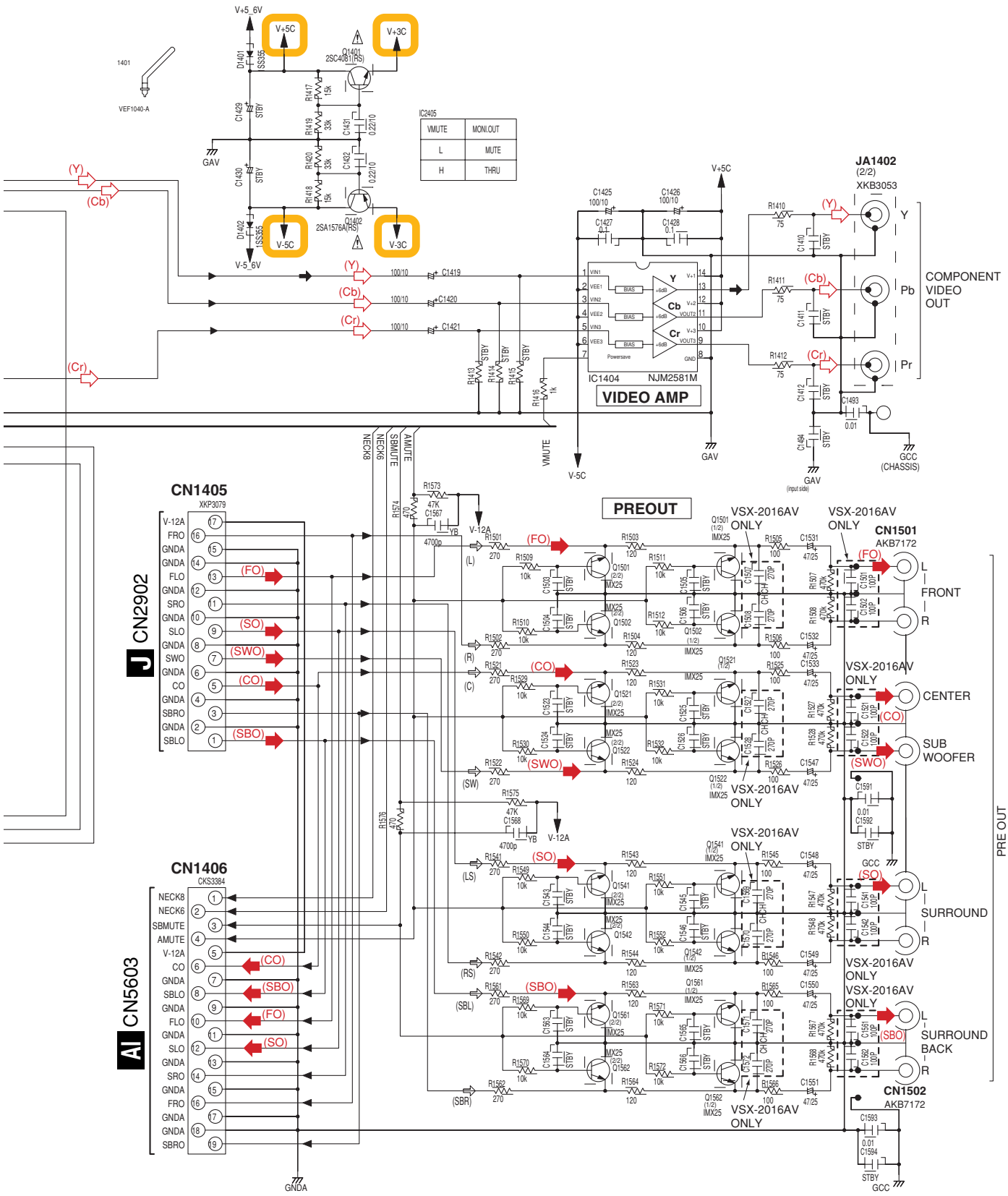
S53ABC	OUT
H	THRU
L	DVC


SD
IC1205 LA7109
VIDEO AMP
DVR2RECMUTE
DVR1RECMUTE
VMUTE
SDET
YOUT
COUT
TO DVC
D1203 DAN202K
D1204 DAN202K-
CN1204 (3/3) XKB3052 MONITOR OUT
CN1205 (2/2) XKB3051 DVR/VCR1 OUT
CN1206 (2/2) XKB3051 DVR/VCR2 OUT
S-VIDEO
VSX-81TXV, VSX-9110TXV ONLY
JA1351 RKN1004
12V TRIGGER (DC OUT12V /100mA MAX)
12VDET
12TRG1
J BRIDGE 2 ASSY (AWX9050)
CN2901 XKP3068
CN2902 XKP3068
A 2/2 CN520
K CN1405
AC CN3803
CN1203 XKP3078
(FL): Audio Signal Route (Front L ch)
(SL): Audio Signal Route (Surround L ch)
(C): Audio Signal Route (Center ch)
(SBL): Audio Signal Route (Surround Back L ch)
(SW): Audio Signal Route (SubWoofer ch)
(SY): S-Video Signal Route (Y ch)
(SC): S-Video Signal Route (C ch)

3.15 COMPONENT ASSY

K COMPONENT ASSY (VSX-2016AV : AWX9031)
(VSX-81TXV, VSX-9110TXV : AWX9032)





NOTES

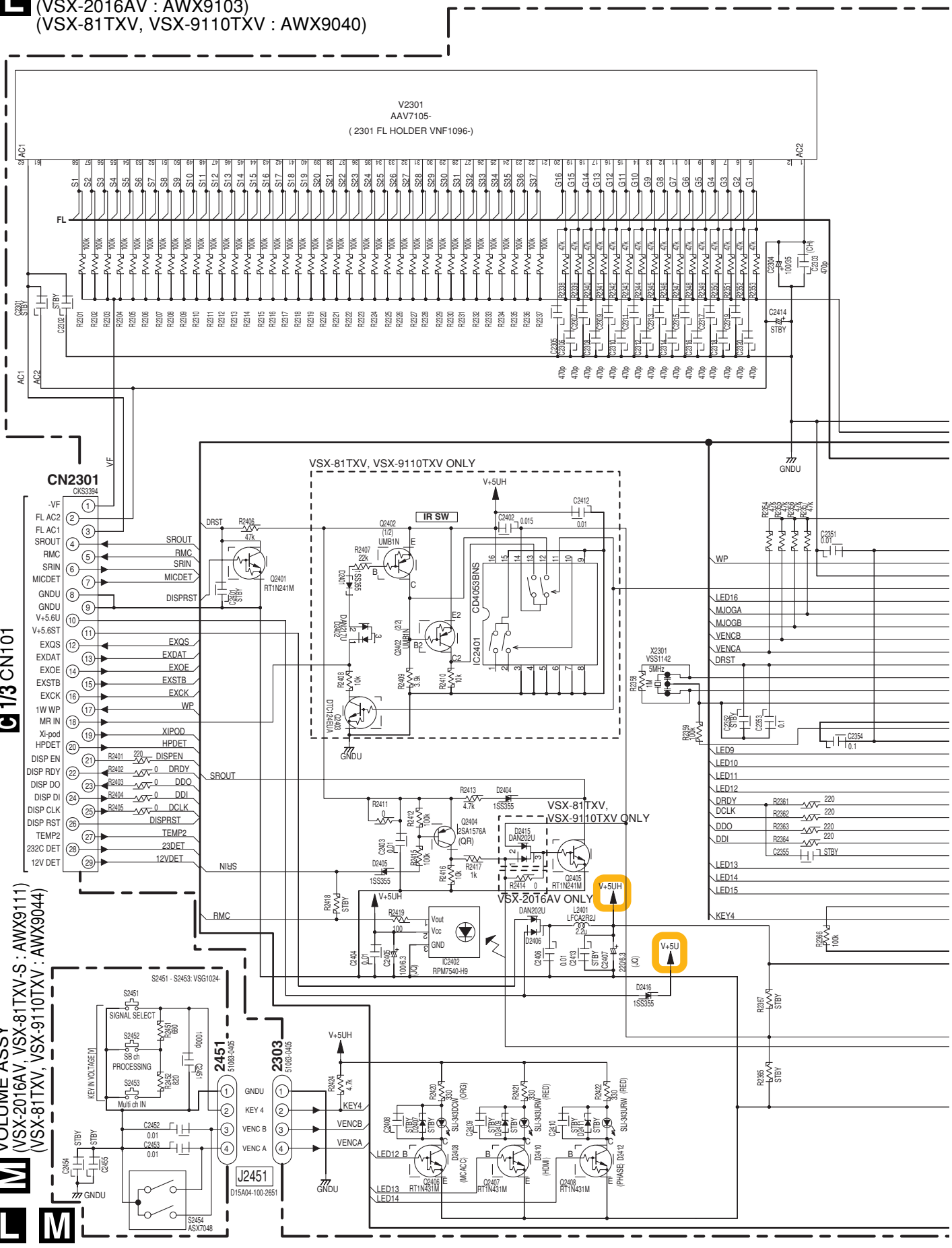
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: ±5%(J) unless otherwise noted.

2.DIODES
No marked Diodes are 1SS355.
* Parts or parts block marked by "STBY" are standby.

3.CAPACITORS
No marked Capacitors are CEAT or CKSRYB
Unit: p-pF or μ-F unless otherwise noted.
Rated Voltage: shown as "Capacity(μF)/Voltage(V)", or 50V unless otherwise noted.

3.16 DISPLAY, VOLUME and MULTI JOG ASSYS

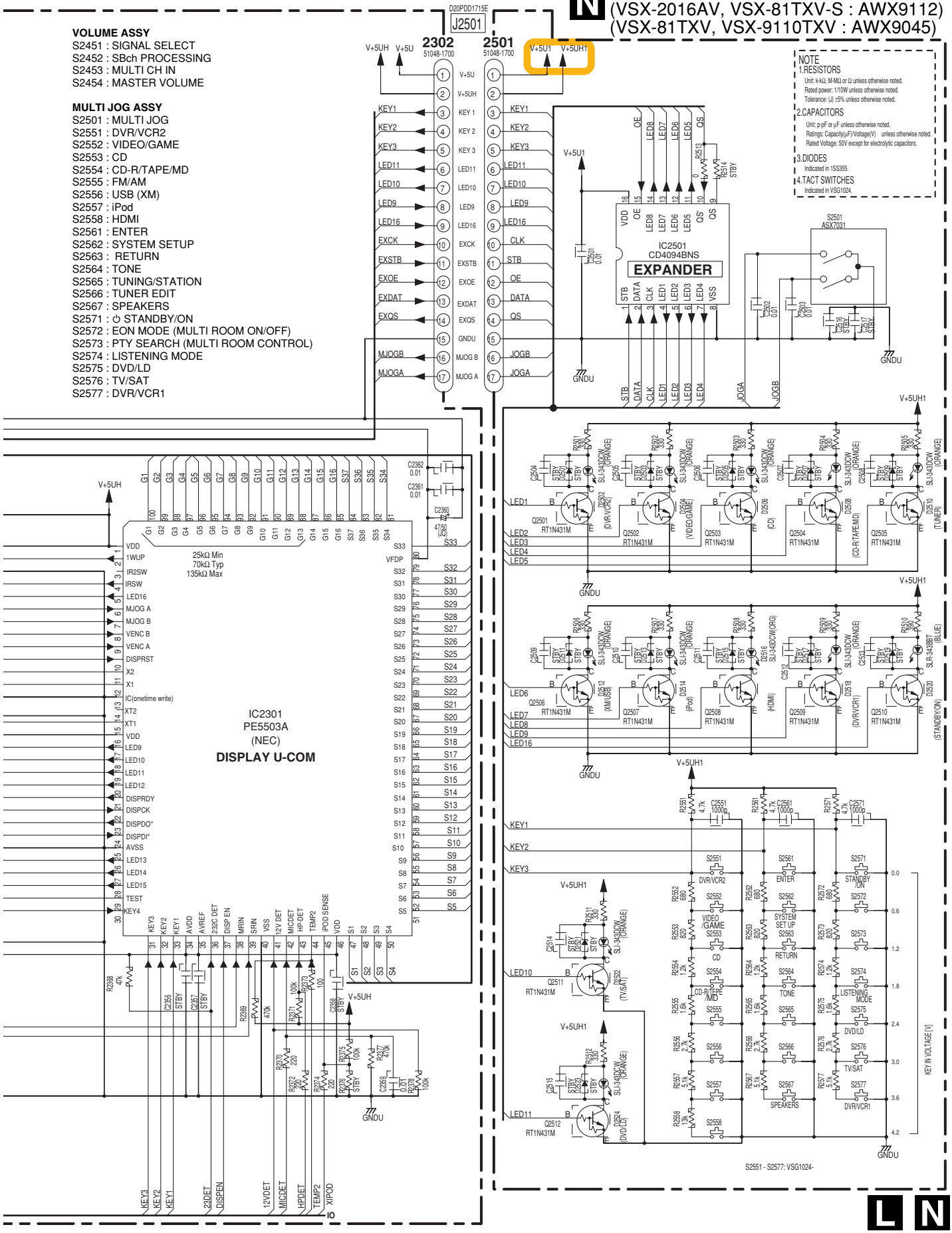
L DISPLAY ASSY
(VSX-2016AV : AWX9103)
(VSX-81TXV, VSX-9110TXV : AWX9040)



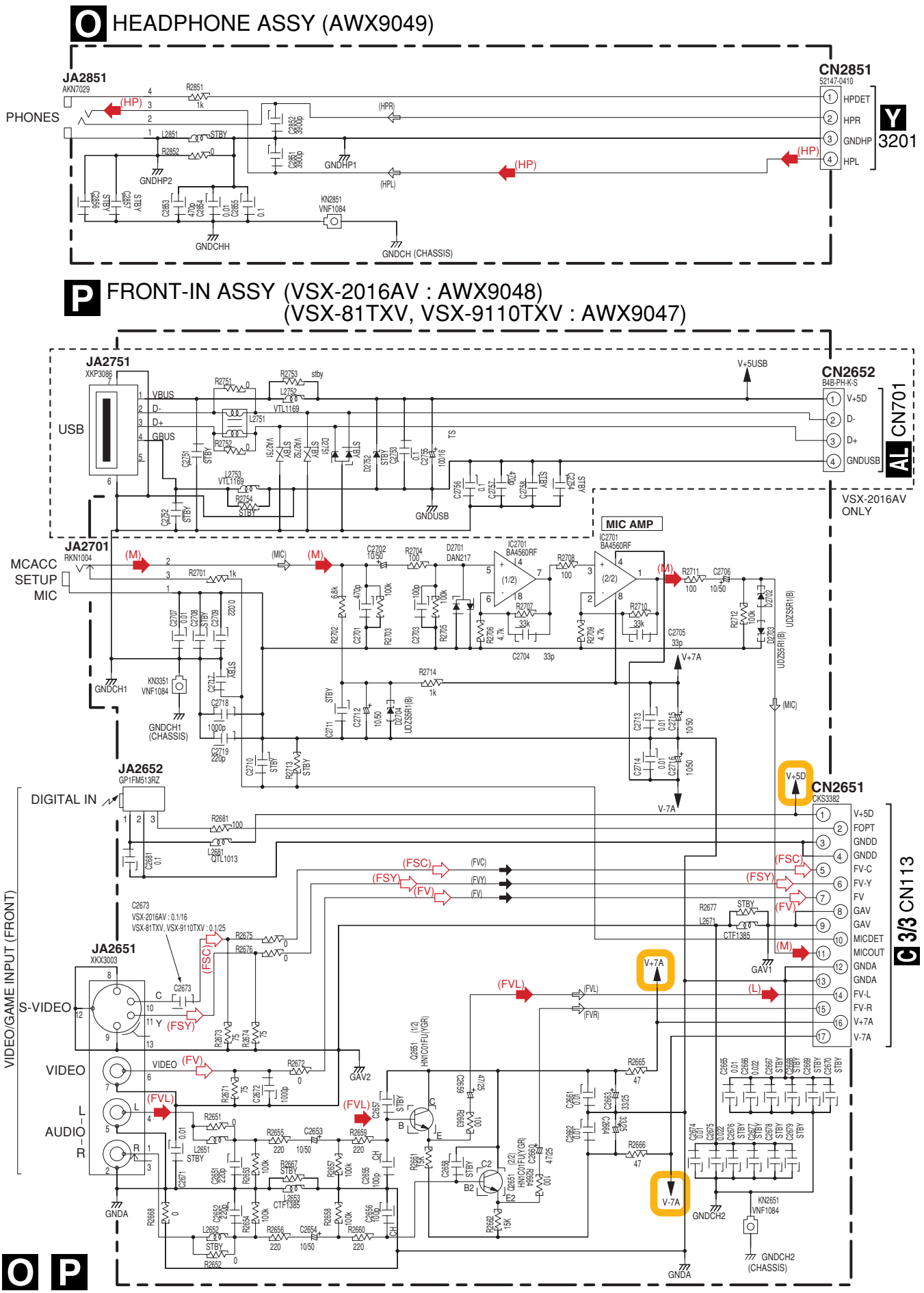
N MULTI JOG ASSY
(VSX-2016AV, VSX-81TXV-S : AWX9112)
(VSX-81TXV, VSX-9110TXV : AWX9045)

VOLUME ASSY
S2451 : SIGNAL SELECT
S2452 : SBch PROCESSING
S2453 : MULTI CH IN
S2454 : MASTER VOLUME

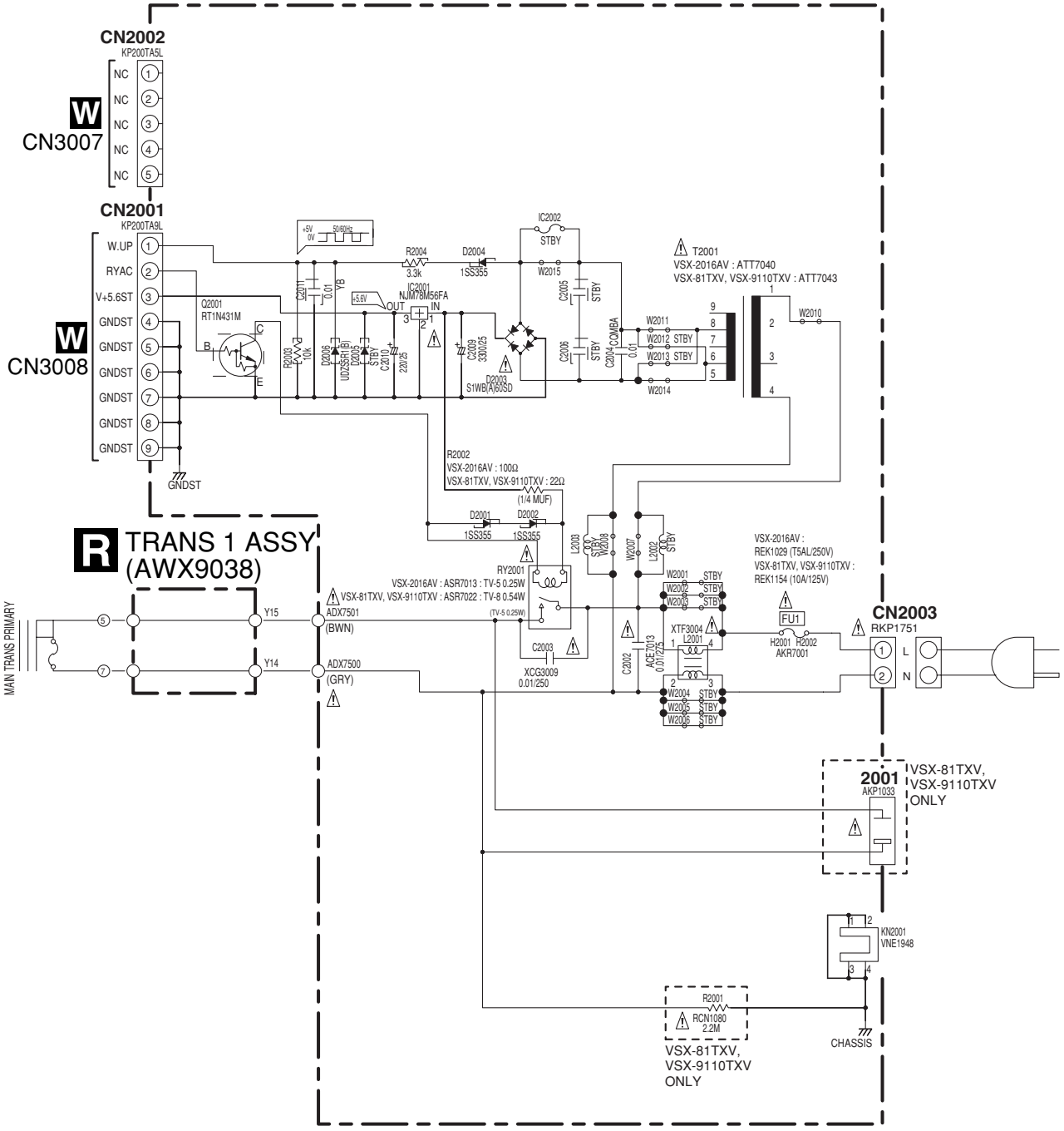
MULTI JOG ASSY
S2501 : MULTI JOG
S2551 : DVR/VCR2
S2552 : VIDEO/GAME
S2553 : CD
S2554 : CD-R/TAPE/MD
S2555 : FM/AM
S2556 : USB (XM)
S2557 : iPod
S2558 : HDMI
S2561 : ENTER
S2562 : SYSTEM SETUP
S2563 : RETURN
S2564 : TONE
S2565 : TUNING/STATION
S2566 : TUNER EDIT
S2567 : SPEAKERS
S2571 : ⏻ STANDBY/ON
S2572 : EON MODE (MULTI ROOM ON/OFF)
S2573 : PTY SEARCH (MULTI ROOM CONTROL)
S2574 : LISTENING MODE
S2575 : DVD/LD
S2576 : TV/SAT
S2577 : DVR/VCR1



3.17 HEADPHONE, FRONT-IN, PRIMARY and TRANS 1 ASSYS



Q PRIMARY ASSY (VSX-2016AV : AWX9035)
(VSX-81TXV, VSX-9110TXV : AWX9034)



• NOTE FOR FUSE REPLACEMENT

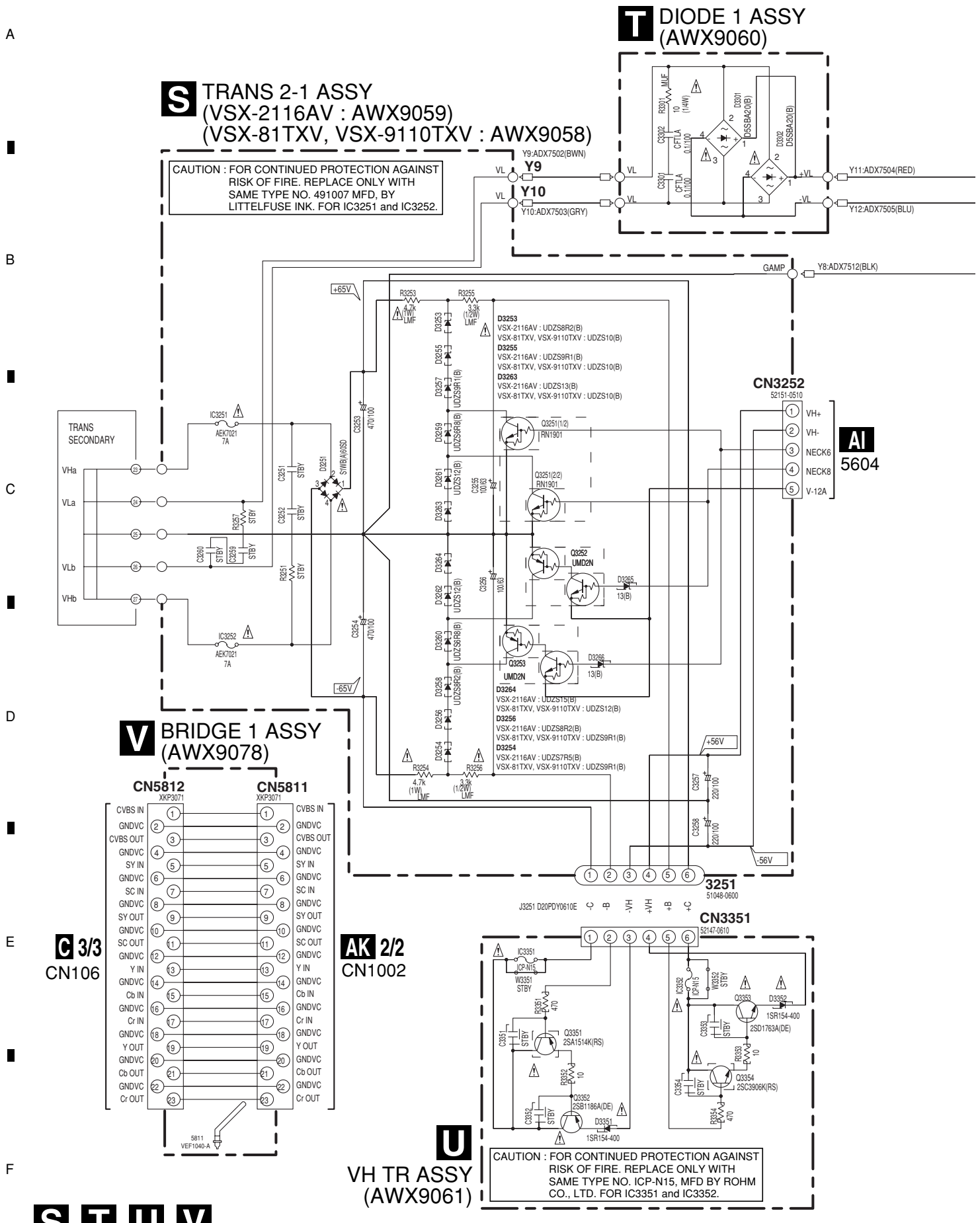
CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS ONLY.

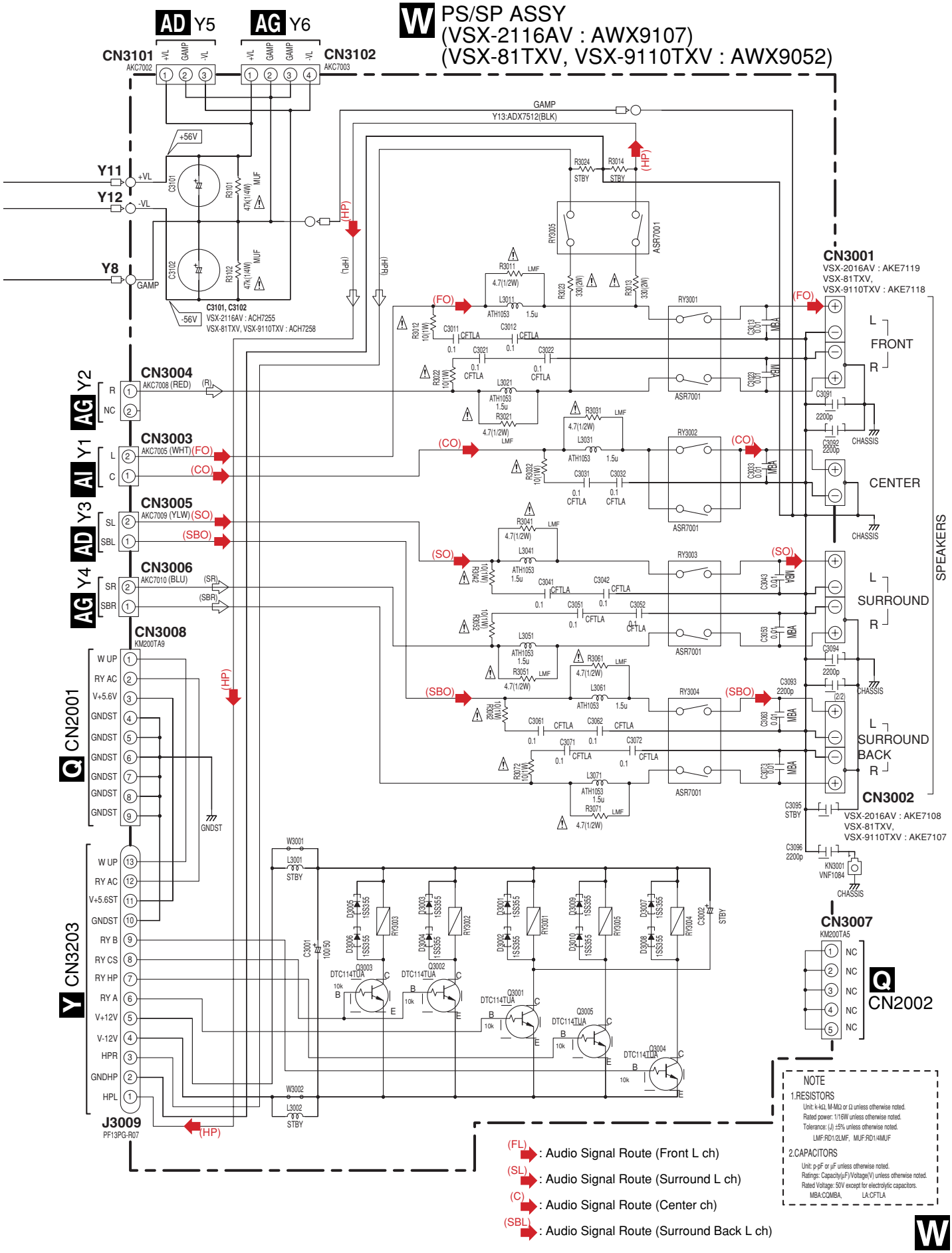
NOTE
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or µF unless otherwise noted.
Ratings: Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.
3.DIODES
Indicated in 1SS355.

(L) : Audio Signal Route (L ch)
(M) : Audio Signal Route (Mic ch)
(V) : Video Signal Route
(SY) : S-Video Signal Route (Y ch)
(SC) : S-Video Signal Route (C ch)

Q R

3.18 TRANS 2-1, DIODE 1, VH TR, BRIDGE 1 and PS/SP ASSYS




W PS/SP ASSY
(VSX-2116AV : AWX9107)
(VSX-81TXV, VSX-9110TXV : AWX9052)
AD Y5
AG Y6
CN3101
AKC7002
CN3102
AKC7003
+VL
GAMP
-VL
Y11
Y12
Y8
+56V
-56V
C3101
C3102
R3101
R3102
47k(1/4W)
MUF
C3101, C3102
VSX-2116AV : ACH7255
VSX-81TXV, VSX-9110TXV : ACH7258
GAMP
Y13:ADX7512(BLK)
(HP)
(HPL)
(HPR)
R3024
R3014
STBY
RY3005
ASR7001
R3011
4.7(1/2W)
LMF
L3011
ATH1053
1.5u
R3023
330(2W)
R3013
R3012
10(1W)
C3011
CFTLA
C3012
0.1
C3021
C3022
R3022
L3021
R3021
CN3001
VSX-2016AV : AKE7119
VSX-81TXV,
VSX-9110TXV : AKE7118
RY3001
C3013
0.01
MBA
C3091
2200p
CHASSIS
L
FRONT
R
CN3004
AKC7008 (RED)
(R)
R
NC
AG Y2
CN3003
AKC7005 (WHT)
(FO)
(CO)
L
C
AI Y1
R3031
L3031
R3032
C3031
C3032
RY3002
C3033
CENTER
CN3005
AKC7009 (YLW)
(SO)
(SBO)
SL
SBL
AD Y3
R3041
L3041
R3042
C3041
C3042
RY3003
C3043
SURROUND
CN3006
AKC7010 (BLU)
(SR)
(SBR)
SR
SBR
AG Y4
R3051
L3051
R3052
C3051
C3052
C3053
C3094
C3093
2200p
CN3008
KM200TA9
W UP
RY AC
V+5.6V
GNDST
CN2001
Q
R3061
L3061
R3062
C3061
C3062
RY3004
C3063
SURROUND
BACK
R
R3071
L3071
R3072
C3071
C3072
C3073
(2/2)
CN3002
VSX-2016AV : AKE7108
VSX-81TXV,
VSX-9110TXV : AKE7107
C3095
STBY
C3096
2200p
KN3001
VNF1084
SPEAKERS
CN3007
KM200TA5
NC
CN2002
Q
CN3203
Y
RY B
RY CS
RY HP
RY A
V+12V
V-12V
HPR
GNDHP
HPL
J3009
PF13PG-R07
W3001
L3001
W3002
L3002
C3001
100/50
C3002
D3001
D3002
D3003
D3004
D3005
D3006
D3007
D3008
D3009
D3010
RY3001
RY3002
RY3003
RY3004
RY3005
1SS355
Q3001
Q3002
Q3003
Q3004
Q3005
DTC114TUA
10k
NOTE
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.
LMF:RD1/2LMF, MUF:RD1/4MUF
2.CAPACITORS
Unit: p-pF or µF unless otherwise noted.
Ratings: Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.
MBA:COMBA, LA:CFTLA
(FL) : Audio Signal Route (Front L ch)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center ch)
(SBL) : Audio Signal Route (Surround Back L ch)

3.19 TRANS 2-2, TRANS SIDE, LOCAL P-SUPPLY, DC/DC, IR I/O and VIDEO CONNECT ASSYS

Z LOCAL P-SUPPLY ASSY (VSX-2016AV : AWX9064) (VSX-81TXV, VSX-9110TXV : AWX9063)

• NOTE FOR FUSE REPLACEMENT

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS ONLY.

FU4
VSX-2016 : REK1028 (T4AL/250V)
VSX-81TXV, VSX-9110TXV : REK1067 (5A/125V)
FU5, FU6
VSX-2016 : REK1021 (T800mAL/250V)
VSX-81TXV, VSX-9110TXV : REK1143 (1.25A/125V)
FU7, FU8
VSX-2016 : REK1026 (T2.5AL/250V)
VSX-81TXV, VSX-9110TXV : REK1146 (2.5A/125V)

J3401 PF12PG-R40 — CN3501 B12B-PH-K-S

AC1, AC2, VREG, VREGG, VREG, DREG, DREG, DREG, DREG, DREG, AREG, AREGG, AREG

FU8 H3402 H3401 AKR7001
FU7 H3404 H3403 AKR7001
FU4 H3406 H3405 AKR7001
FU5 H3408 H3407 AKR7001
FU6 H3410 H3409 AKR7001

T1501 MAIN TRANS.
VSX-2016AV : ATS7408
VSX-81TXV, VSX-9110TXV : ATS7407

X TRANS 2-2 ASSY (AWX9062)

NOTE 1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or µF unless otherwise noted.
Ratings: Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.

Y TRANS SIDE ASSY (AWX9056)

J3201 D20PDY0410E — O CN2851: HPDET, HPR, GNDHP, HPL (HP)

3201 51048-0400

AJ CN5705: V+FAN, V+FAN, V-FAN, V-FAN, LOCK DET, V-12V, V+12V, RY A, RY HP, RY CS, RY B, GNDST, GNDST, V+5.6ST, RY AC, W UP, HPDET

CN3202 CKS3382

HPL, GNDHP, HPR, V-12V, V+12V, RY A, RY HP, RY CS, RY B, GNDST, V+5.6ST, RY AC, W UP

CN3203 B13B-PH-K-S

R3202 - R3214,L3202 - L3214:STBY

W J3009

3506 51048-0400 — J3506 D20PDY0410E

DREG, DREG, DREG, DREG

CN652 52147-0410

CHASSIS, KN651 VNE1948

C660 STBY, C661 STBY

AA DC/DC ASSY (AWX9015)

VSX-2016AV ONLY

FAN

D3504,D3505, D3506,D3507: UDZS6R2(B)

-28V

IC3501 STBY

IC3502 AEK7012

GNDU

V+IPOD

V+5AD

AD+5V

IC3504 NJM78M05FA

IC3503 STBY

VIDEO ± 5.6V

V+5_6V

V+5_6U

IC3505 NJM78M56FA

+12V

-12V

D3512 D3SBA20(B)

IC3506 NJM79M05FA

-5.6V

V-5_6V

V+13UN

+13V

D653 D3SBA20(B)

IC651 PQ1CG3032FZ

R652 - R654 : D%

L651 ATH7020-47u

V+7D

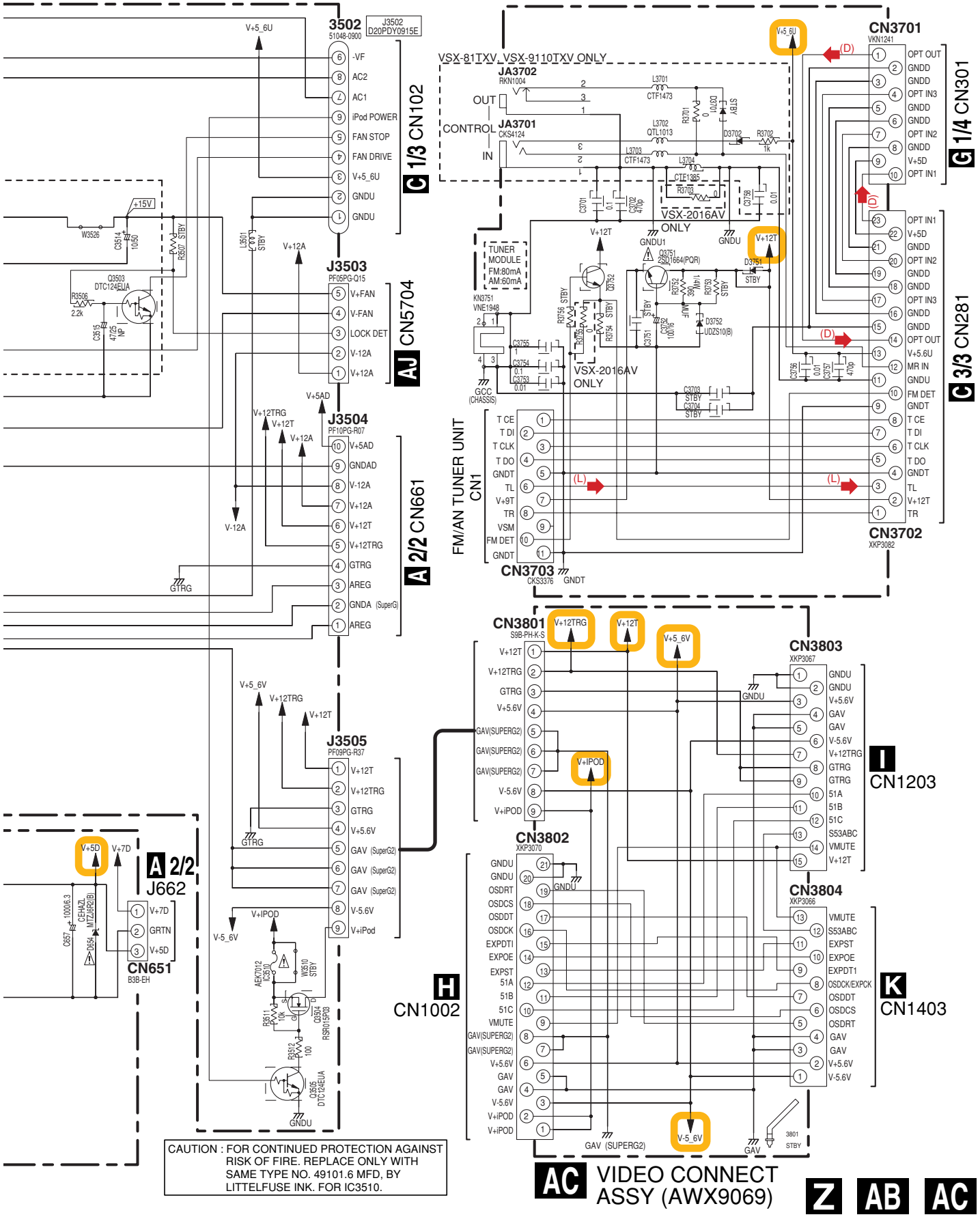
Q651 2SD1858X(QR)

VEF1040-A

STBY

(L) : Audio Signal Route (L ch)
(D) : Audio Data Route

AB IR I/O ASSY
(VSX-2016AV : AWX9067)
(VSX-81TXV, VSX-9110TXV : AWX9066)

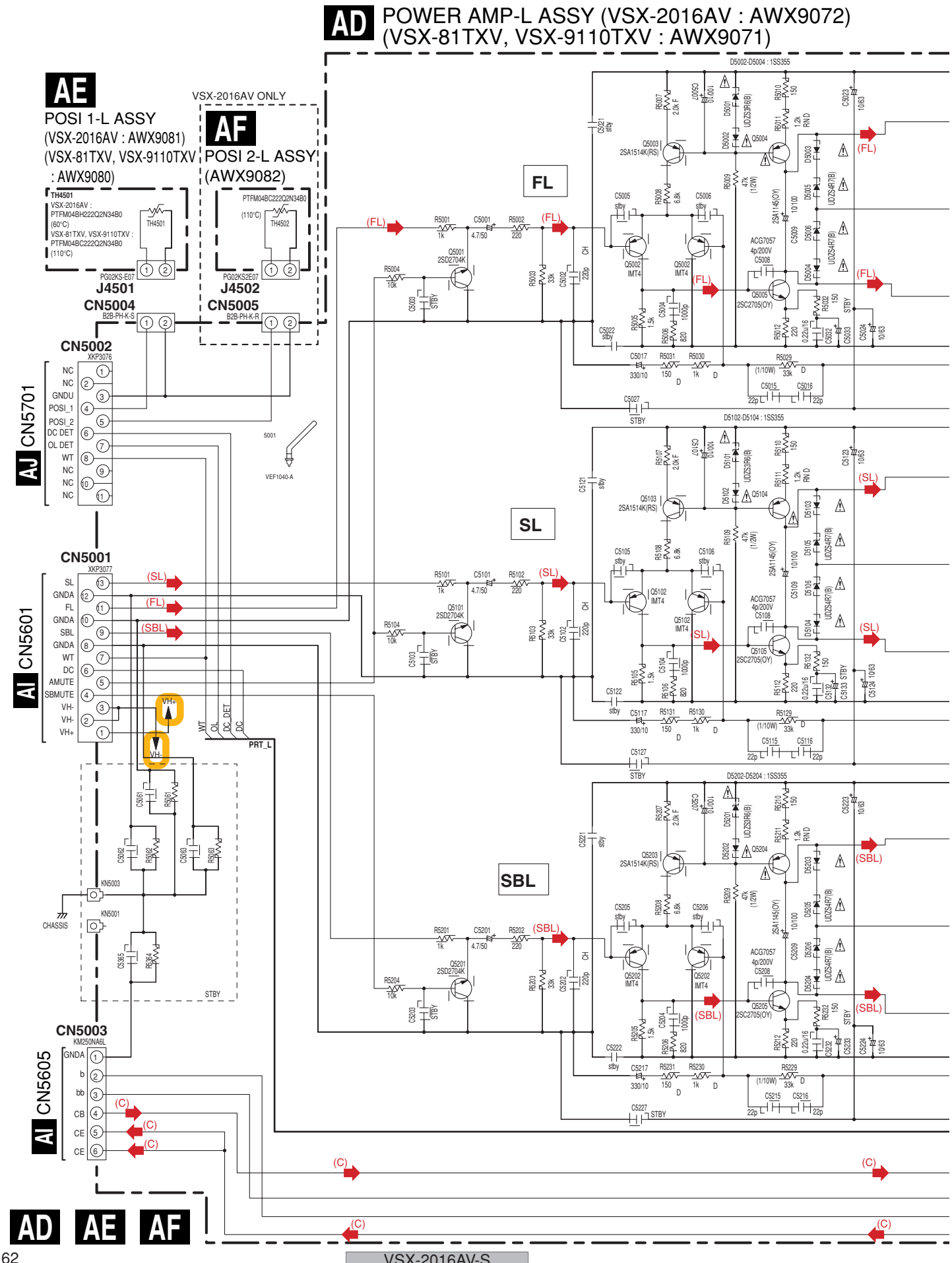


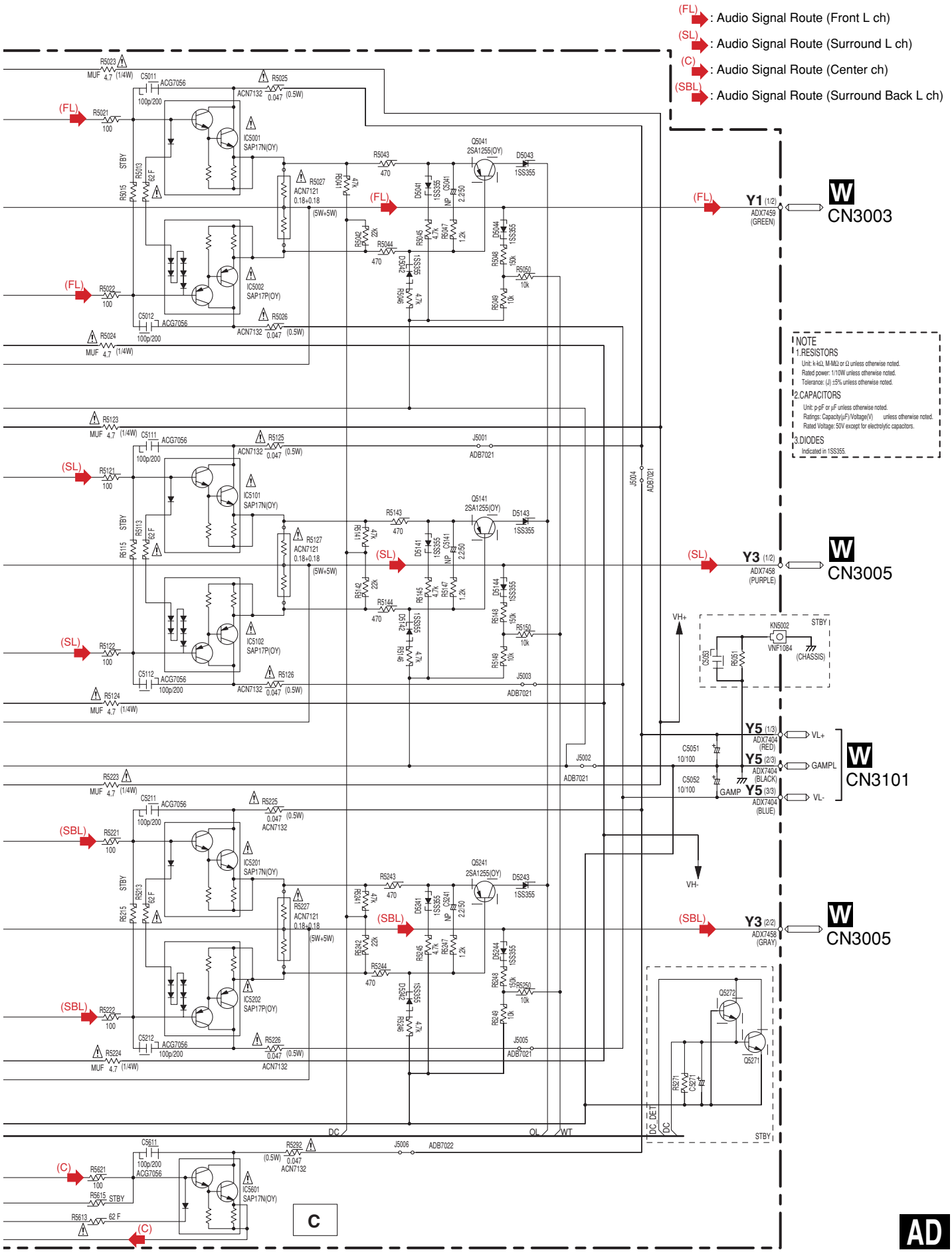
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 49101.6 MFD, BY LITTELFUSE INK. FOR IC3510.

AC VIDEO CONNECT ASSY (AWX9069)

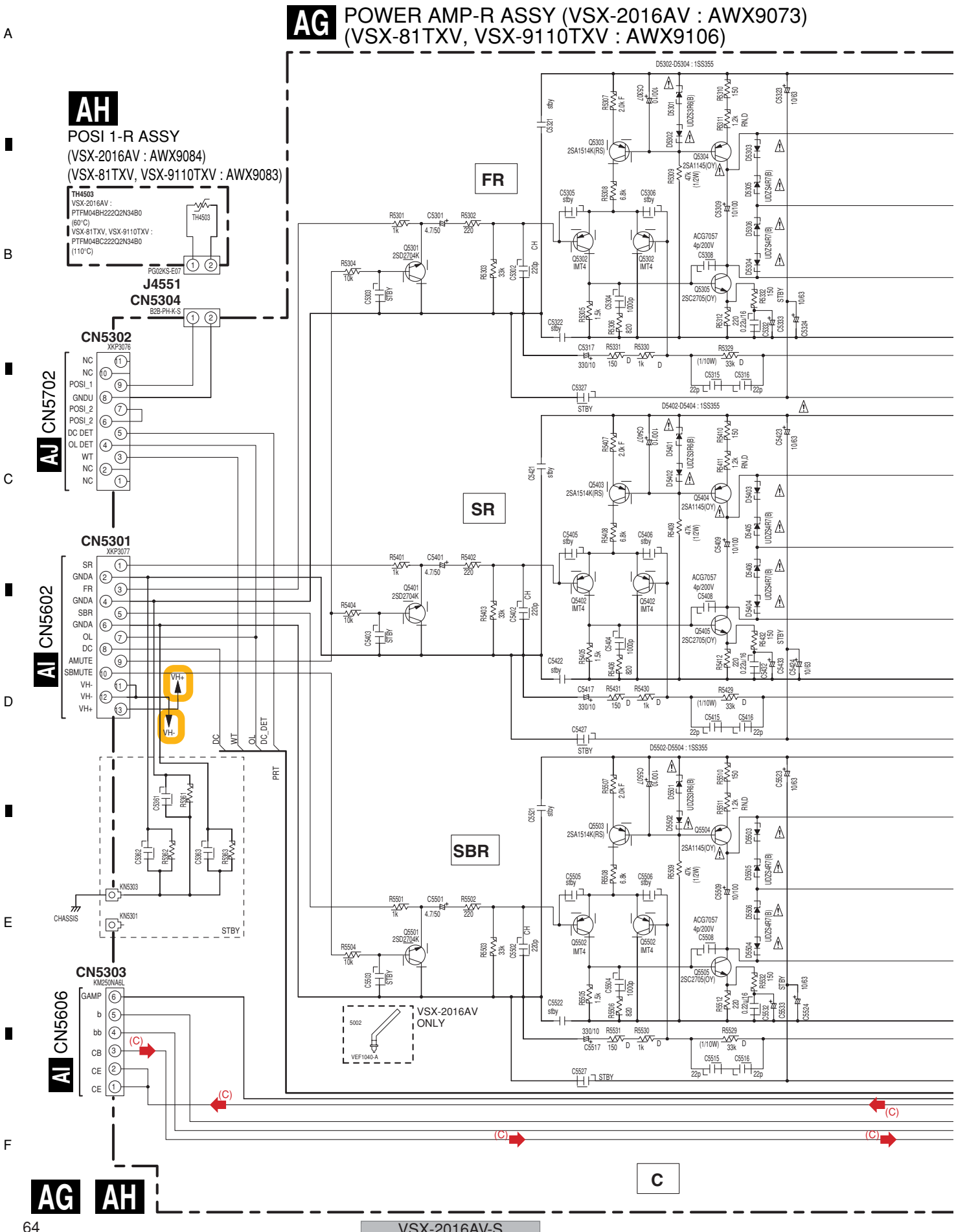
Z AB AC

3.20 POWER AMP-L, POSI 1-L and POSI 2-L ASSYS

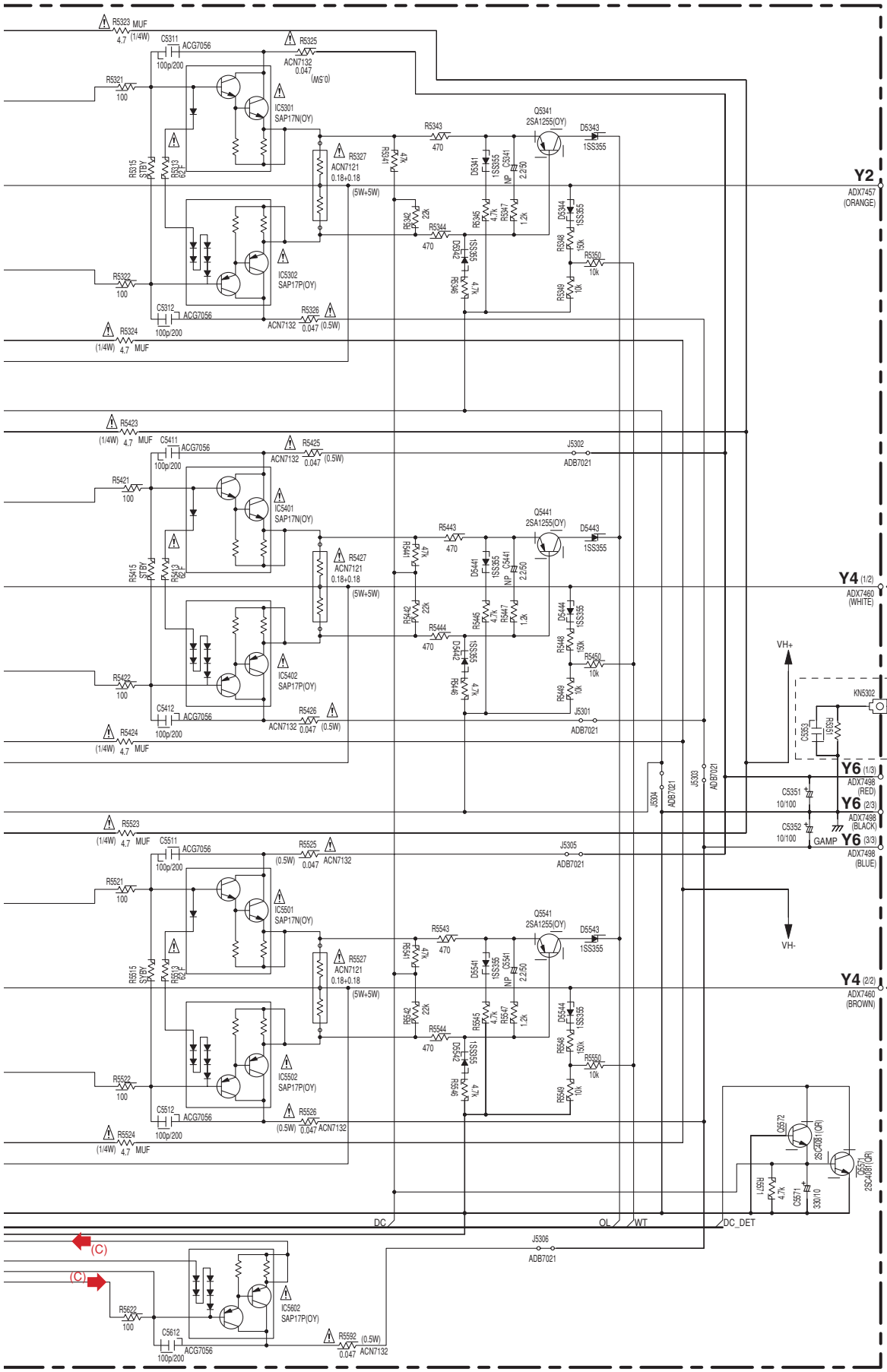



(FL) : Audio Signal Route (Front L ch)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center ch)
(SBL) : Audio Signal Route (Surround Back L ch)
NOTE
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or µF unless otherwise noted.
Ratings: Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.
3.DIODES
Indicated in 1SS355.
Y1 (1/2) ADX7459 (GREEN)
Y3 (1/2) ADX7458 (PURPLE)
Y5 (1/3) ADX7404 (RED)
Y5 (2/3) ADX7404 (BLACK)
Y5 (3/3) ADX7404 (BLUE)
Y3 (2/2) ADX7458 (GRAY)
CN3003
CN3005
CN3101
VL+
GAMPL
VL-
VH+
VH-
GAMP
STBY
DC
OL
WT
DET
C

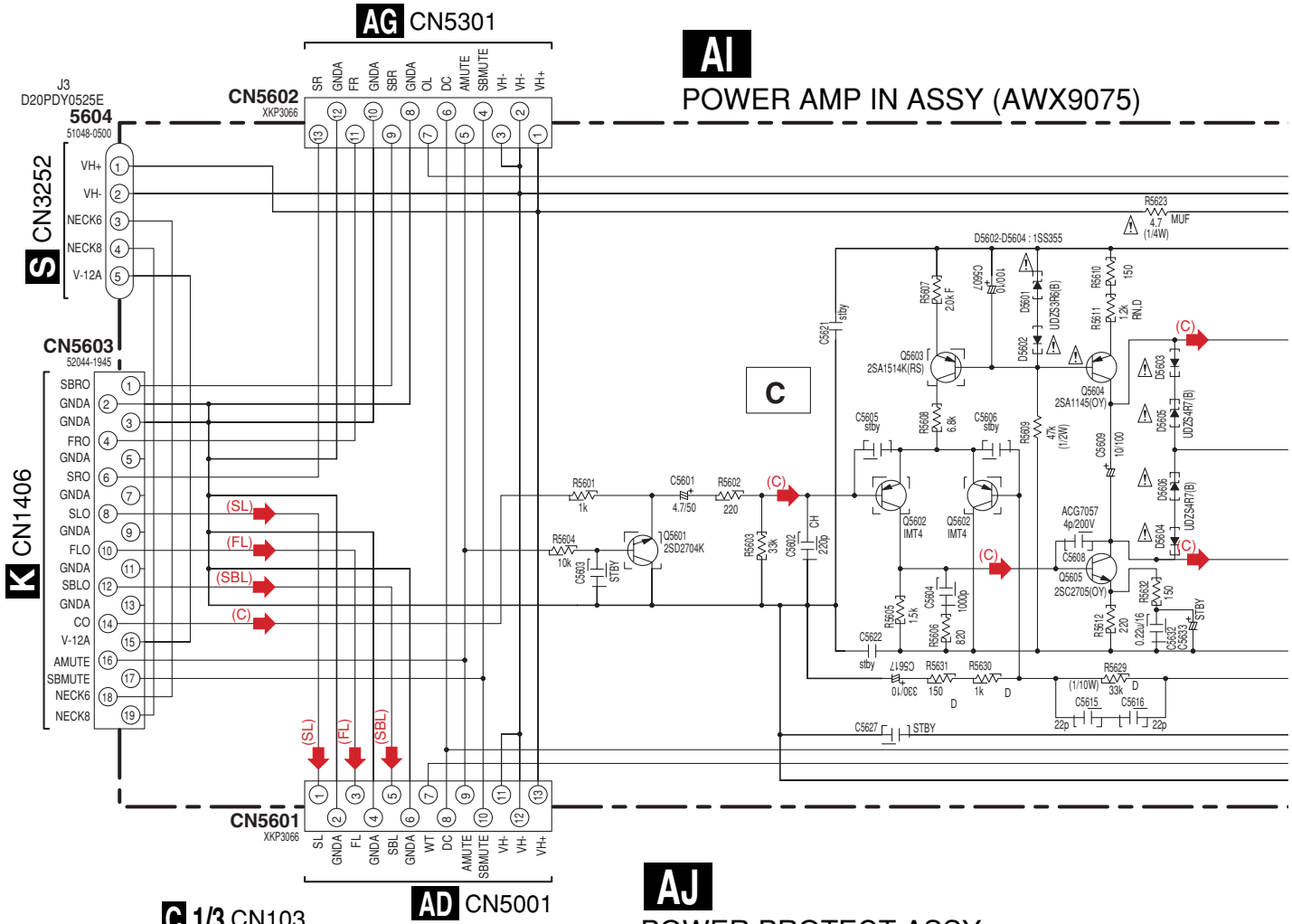
3.21 POWER AMP-R and POSI 1-R ASSYS

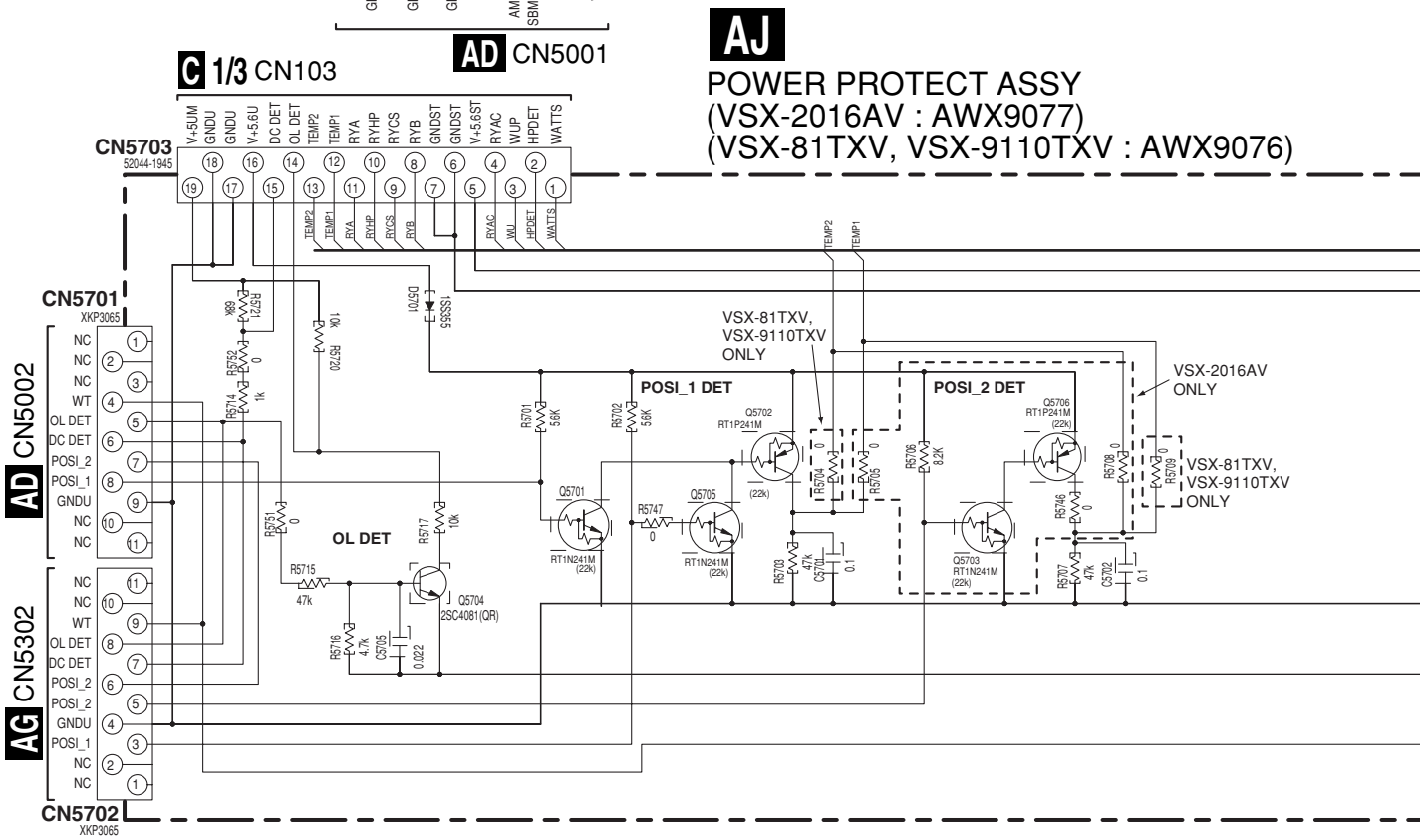


(C) : Audio Signal Route (Center ch)



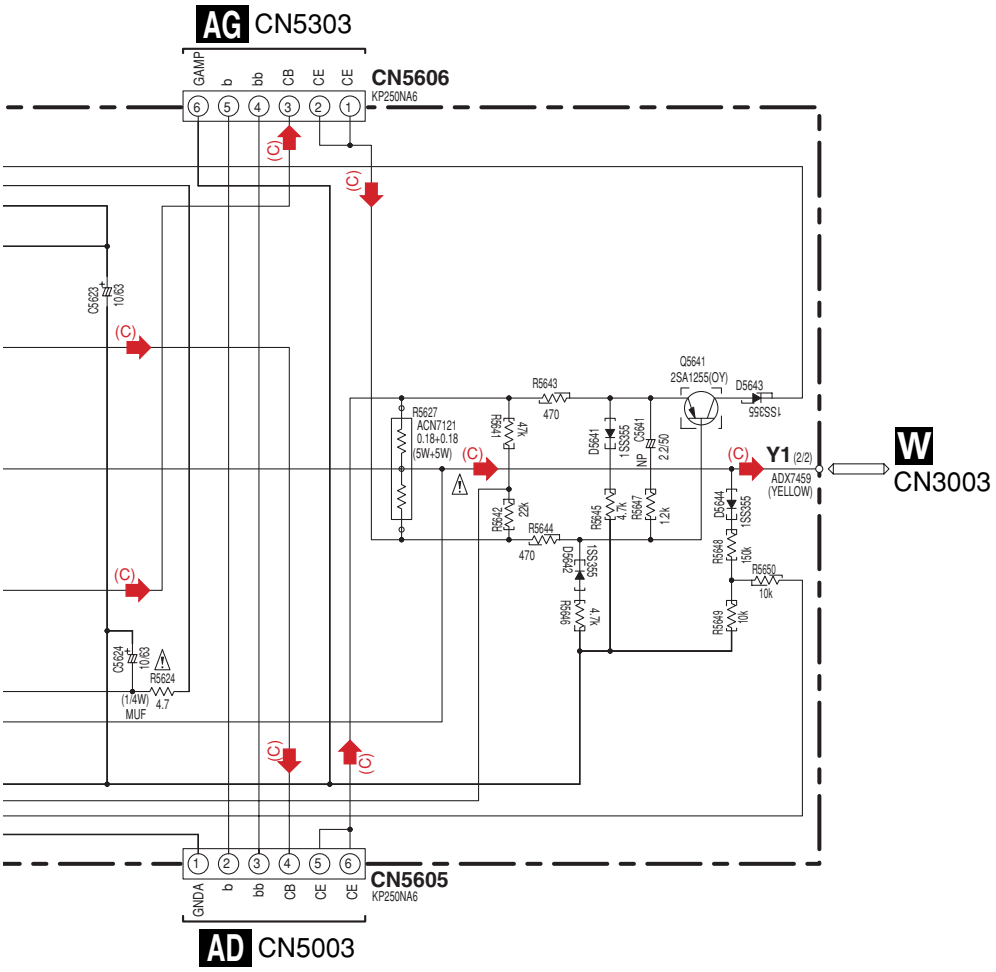
3.22 POWER AMP IN and POWER PROTECT ASSYS



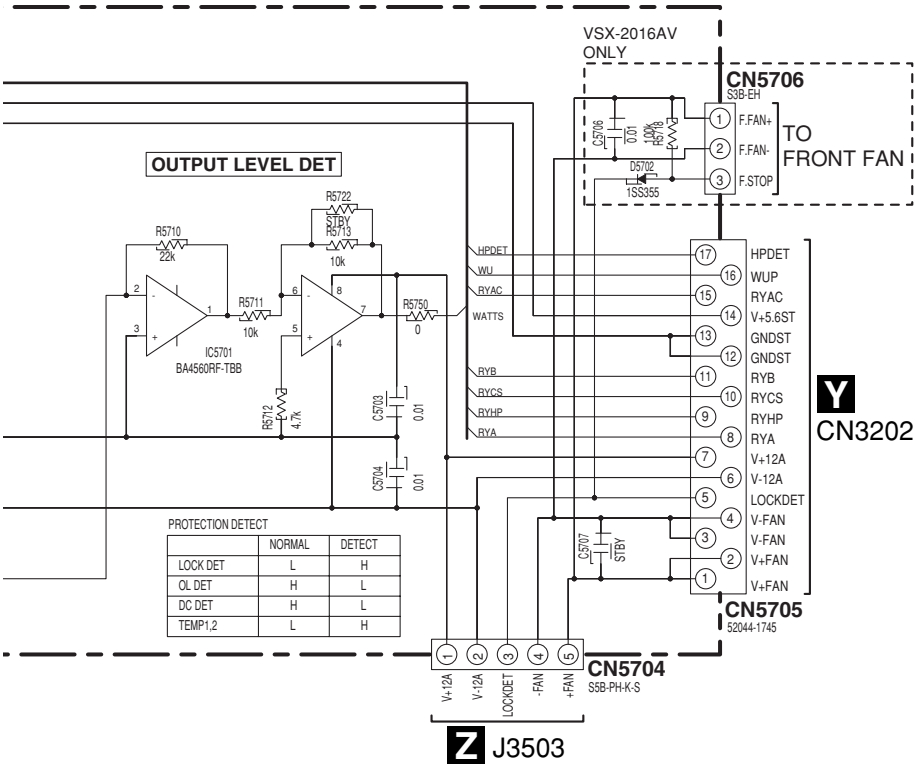


AI AJ

(FL) : Audio Signal Route (Front L ch)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center ch)
(SBL) : Audio Signal Route (Surround Back L ch)



NOTE
1.RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/16W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.
2.CAPACITORS
Unit: p-pF or µF unless otherwise noted.
Ratings: Capacity(µF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.



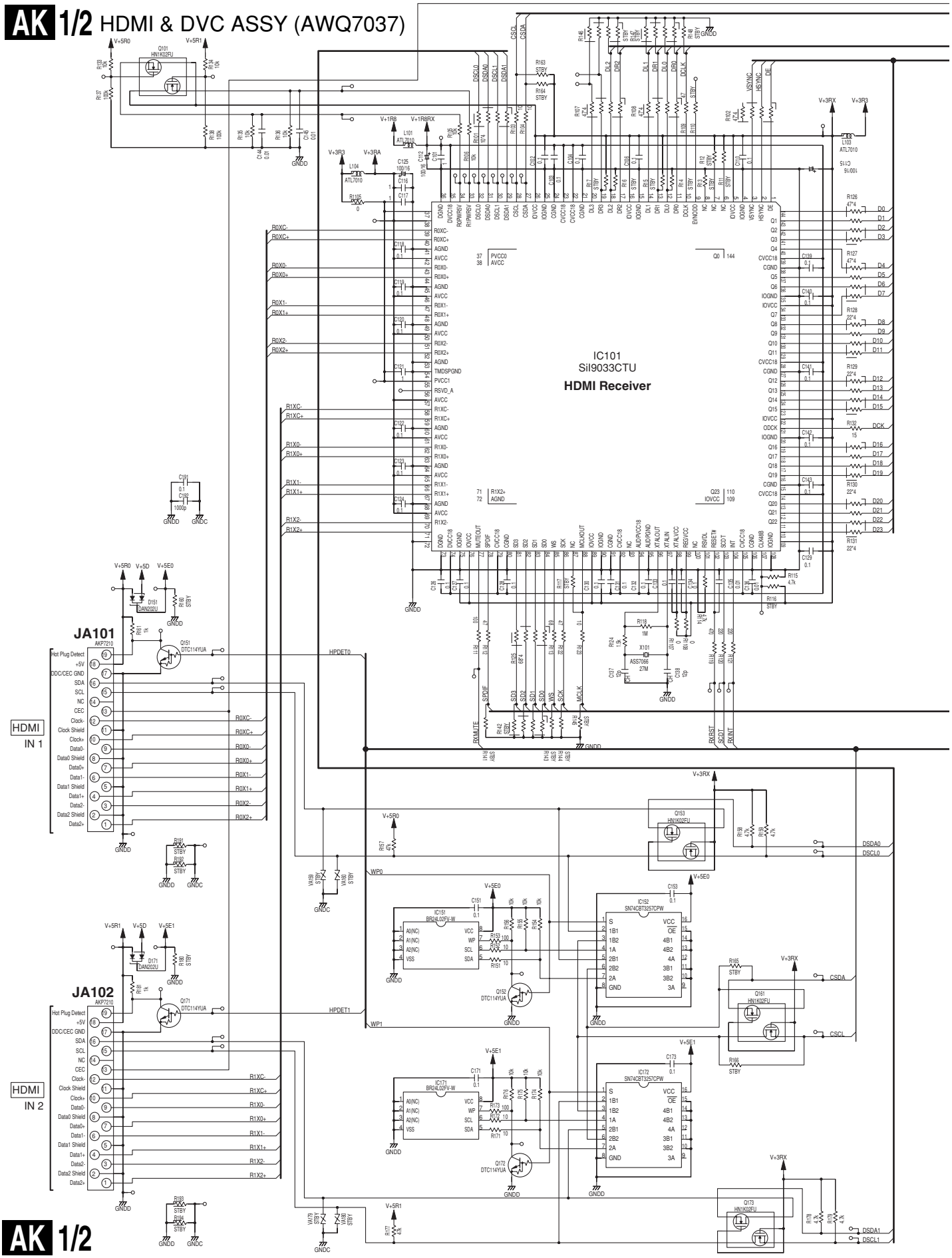
PROTECTION DETECT

	NORMAL	DETECT
LOCK DET	L	H
OL DET	H	L
DC DET	H	L
TEMP1,2	L	H

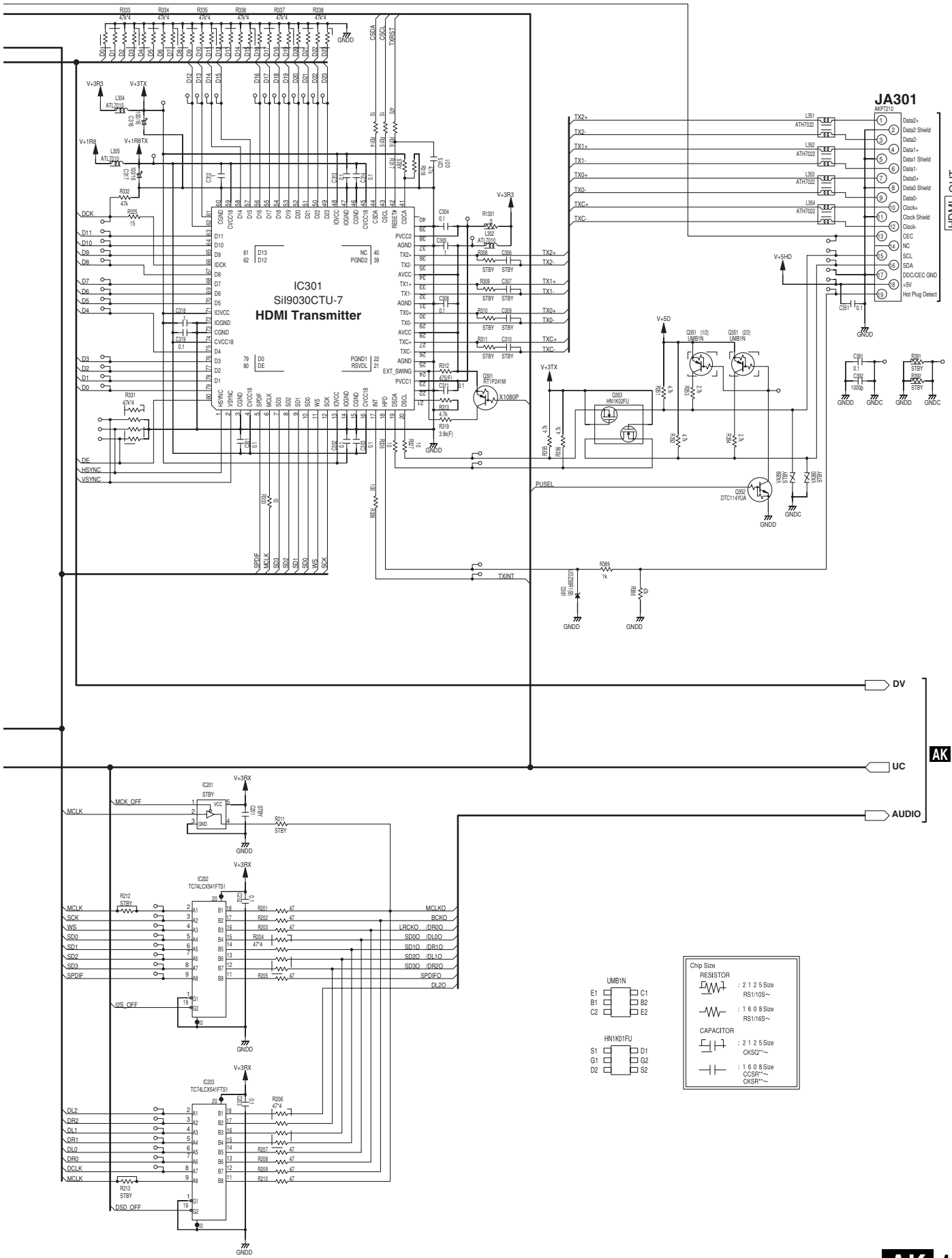
AI AJ

3.23 HDMI & DVC ASSY (1/2)

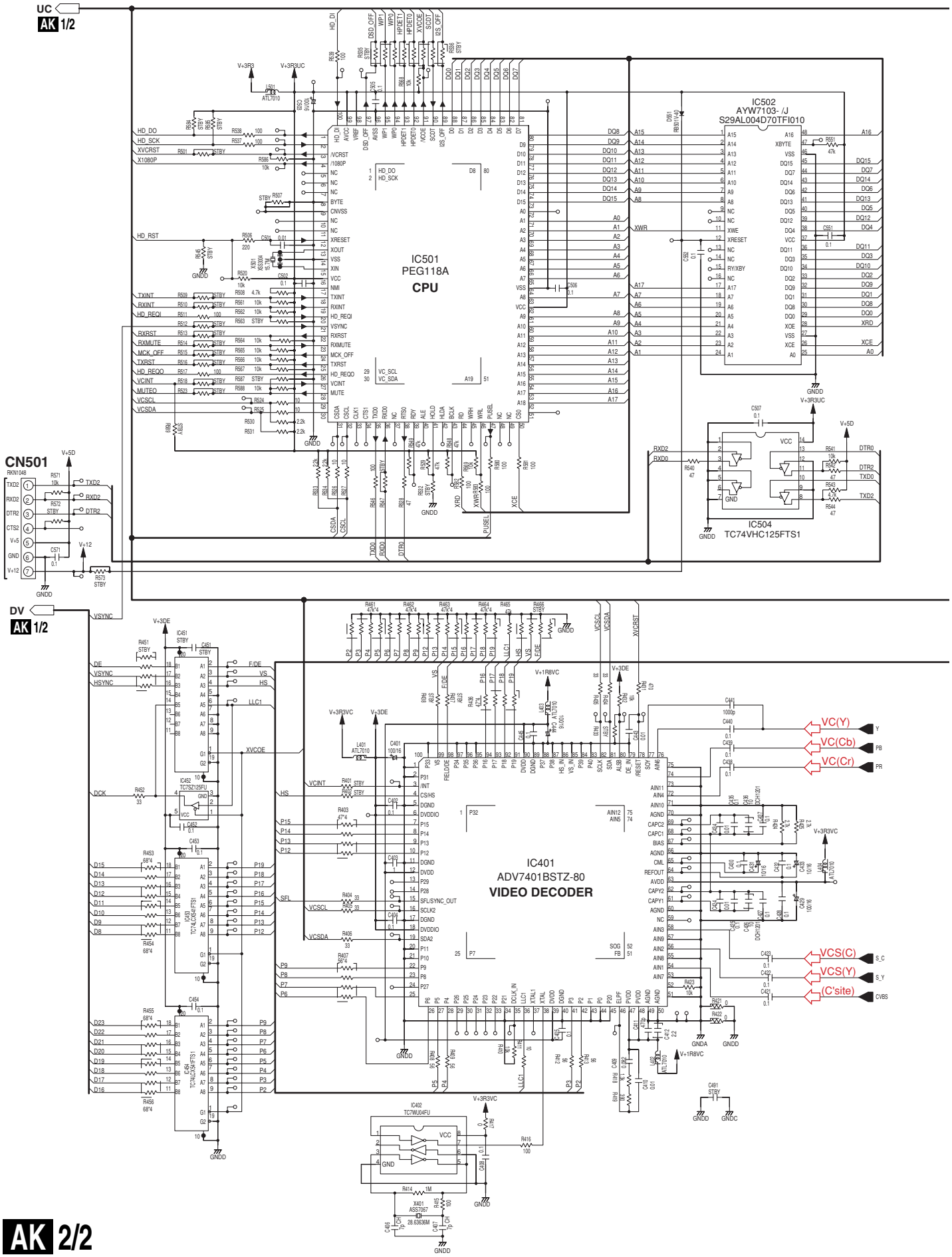
AK 1/2 HDMI & DVC ASSY (AWQ7037)



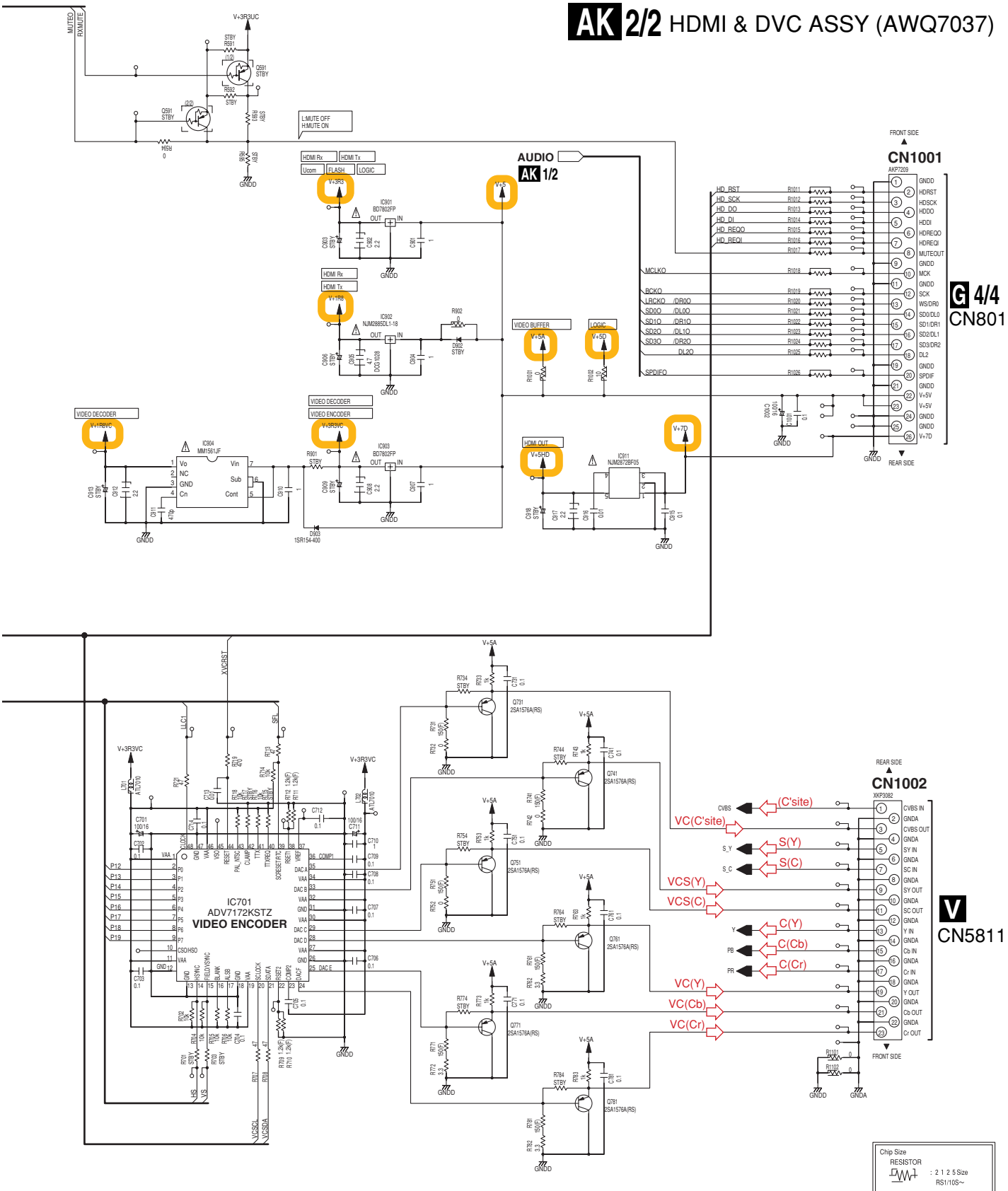
AK 1/2


IC301
Sil9030CTU-7
HDMI Transmitter
JA301
AKP7210
HDMI OUT
Data2+
Data2 Shield
Data2-
Data1+
Data1 Shield
Data1-
Data0+
Data0 Shield
Data0-
Clock+
Clock Shield
Clock-
CEC
NC
SCL
SDA
DDC/CEC GND
+5V
Hot Plug Detect
TX2+
TX2-
TX1+
TX1-
TX0+
TX0-
TXC+
TXC-
V+3R3
V+3TX
V+1R8
V+1R8TX
V+5HD
V+5D
V+3RX
DCK
D11
D10
D9
D8
D7
D6
D5
D4
D3
D2
D1
D0
DE
HSYNC
VSYNC
PUSEL
TXINT
DV
UC
AUDIO
AK 2/2
IC201
IC202
TC74LCX541FTS1
IC203
TC74LCX541FTS1
MCK_OFF
MCLK
I2S_OFF
DSD_OFF
SCK
WS
SD0
SD1
SD2
SD3
SPDIF
DL2
DR2
DL1
DR1
DL0
DR0
DCLK
MCLKO
BCKO
LRCKO /DR0O
SDOO /DL0O
SD1O /DR1O
SD2O /DL1O
SD3O /DR2O
SPDIFO
DL2O
UMB1N
HN1K01FU
Chip Size
RESISTOR
: 2 1 2 5 Size
RS1/10S~
: 1 6 0 8 Size
RS1/16S~
CAPACITOR
: 2 1 2 5 Size
CKSQ**~
: 1 6 0 8 Size
CCSR**~
CKSR**~

3.24 HDMI & DVC ASSY (2/2)

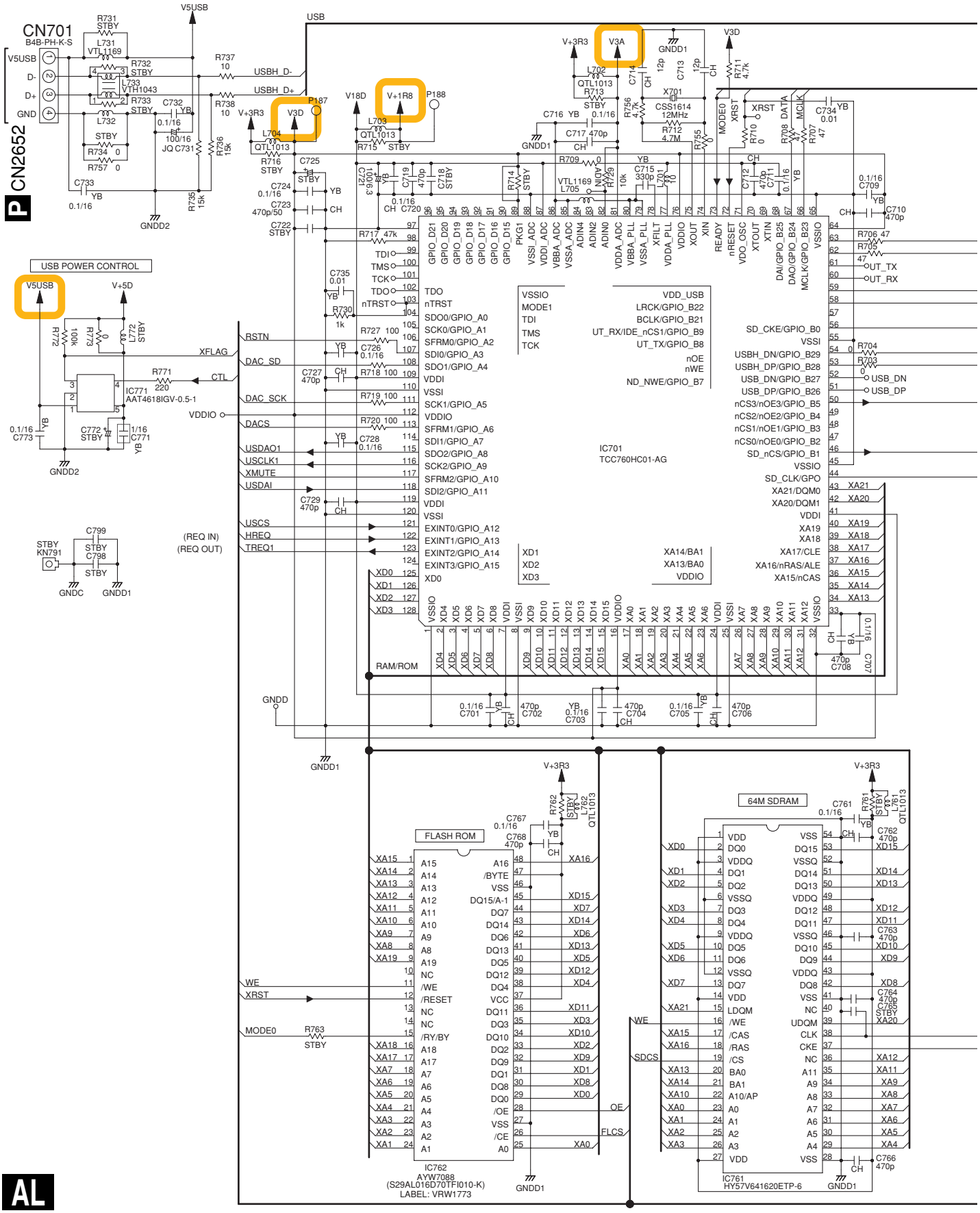


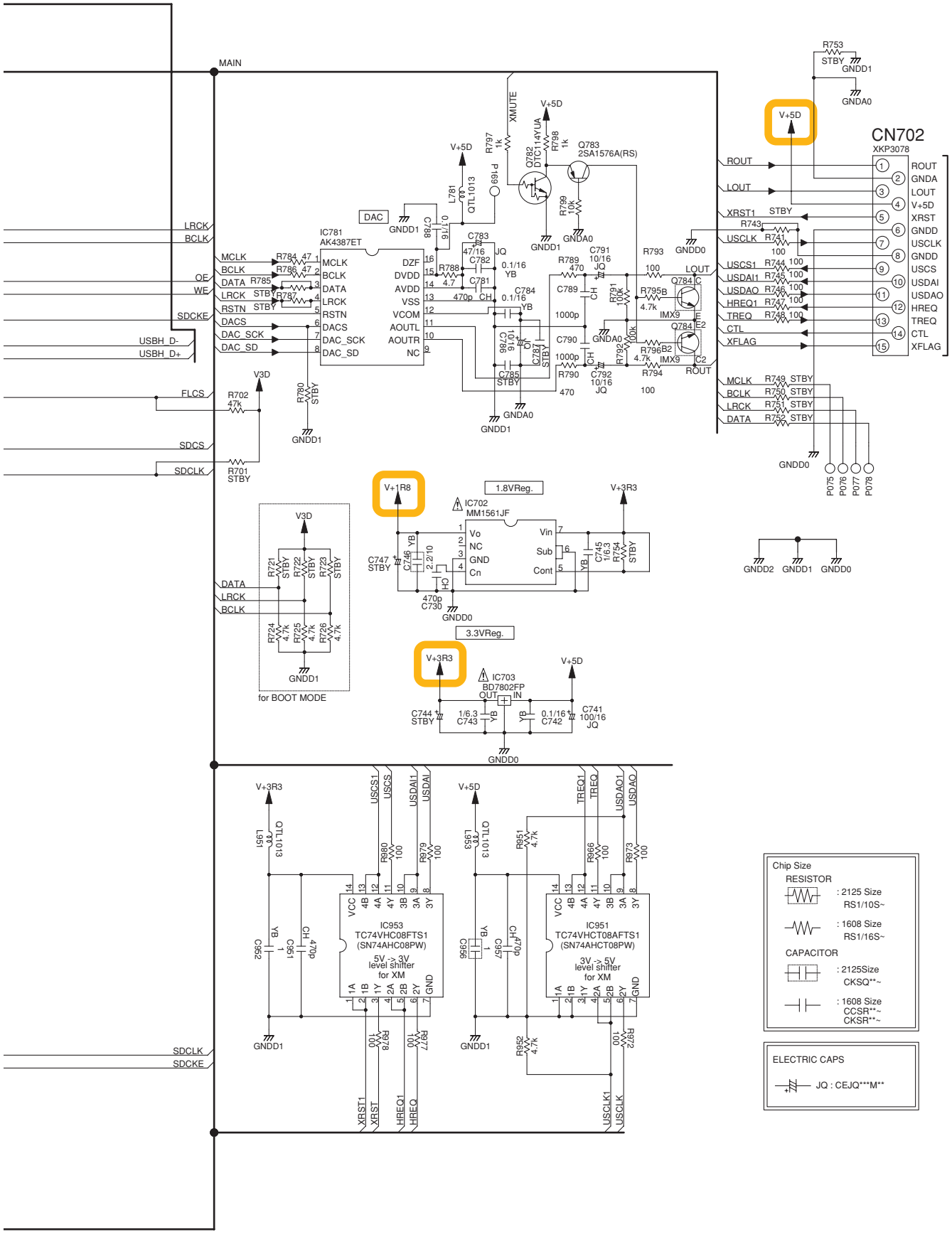
AK 2/2 HDMI & DVC ASSY (AWQ7037)



3.25 USB ASSY (VSX-2016AV-S ONLY)

AL USB ASSY (AWX8704)

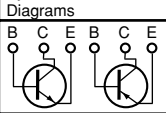
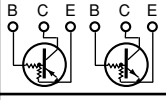
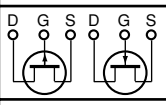
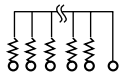



MAIN
IC781
AK4387ET
DAC
IC702
MM1561JF
1.8VReg.
IC703
BD7802FP
3.3VReg.
IC953
TC74VHC08FTS1
(SN74AHC08PW)
5V -> 3V
level shifter
for XM
IC951
TC74VHCT08AFTS1
(SN74AHCT08PW)
3V -> 5V
level shifter
for XM
for BOOT MODE
CN702
XKP3078
A 2/2
CN516
Chip Size
RESISTOR
: 2125 Size
RS1/10S~
: 1608 Size
RS1/16S~
CAPACITOR
: 2125Size
CKSQ**~
: 1608 Size
CCSR**~
CKSR**~
ELECTRIC CAPS
JQ : CEJQ***M**

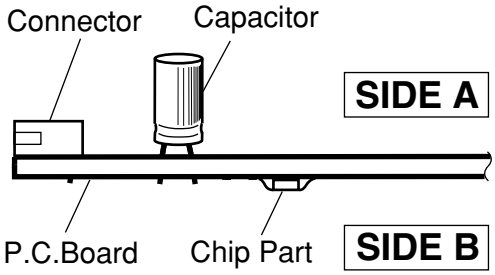
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.



A

B

C

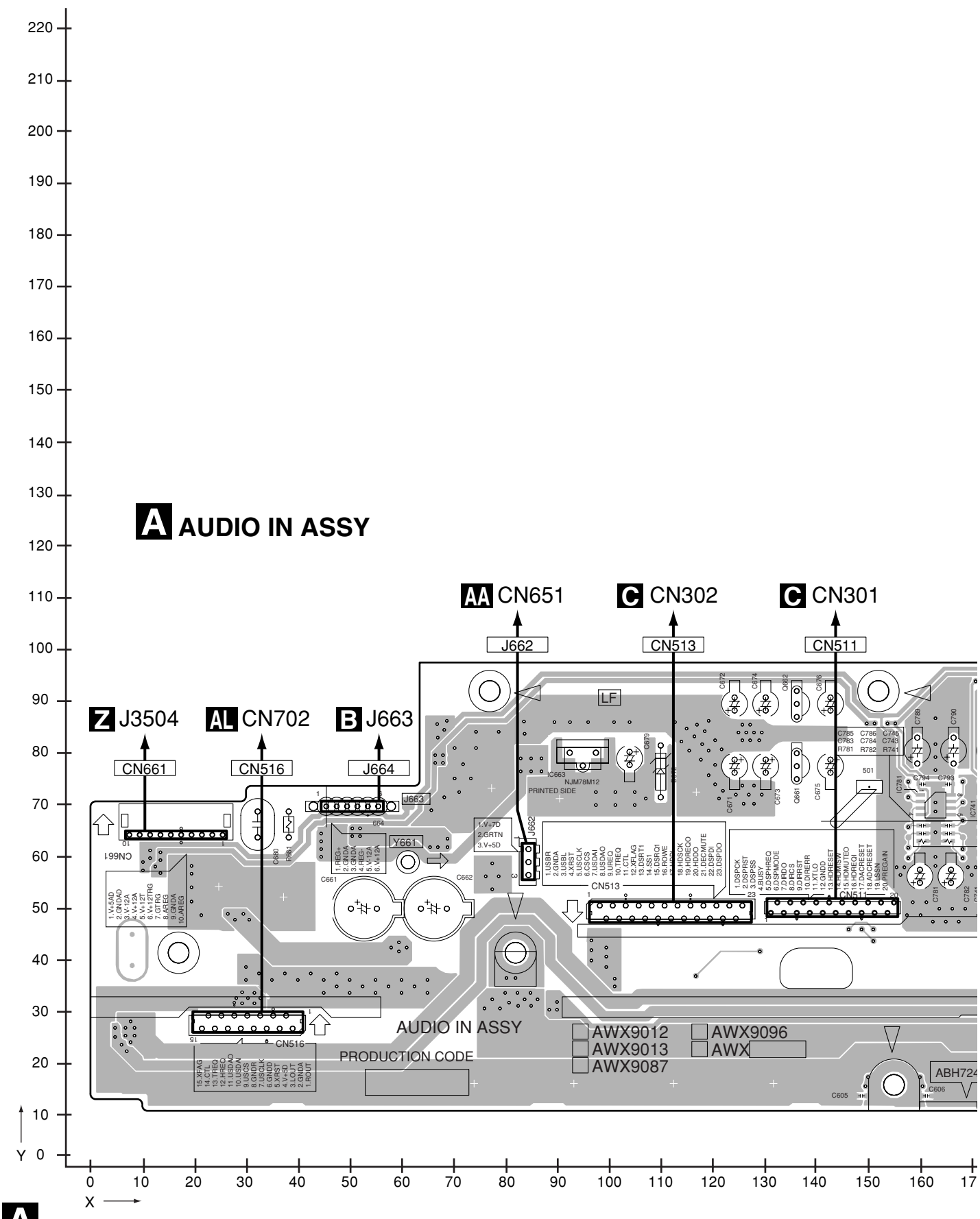
D

E

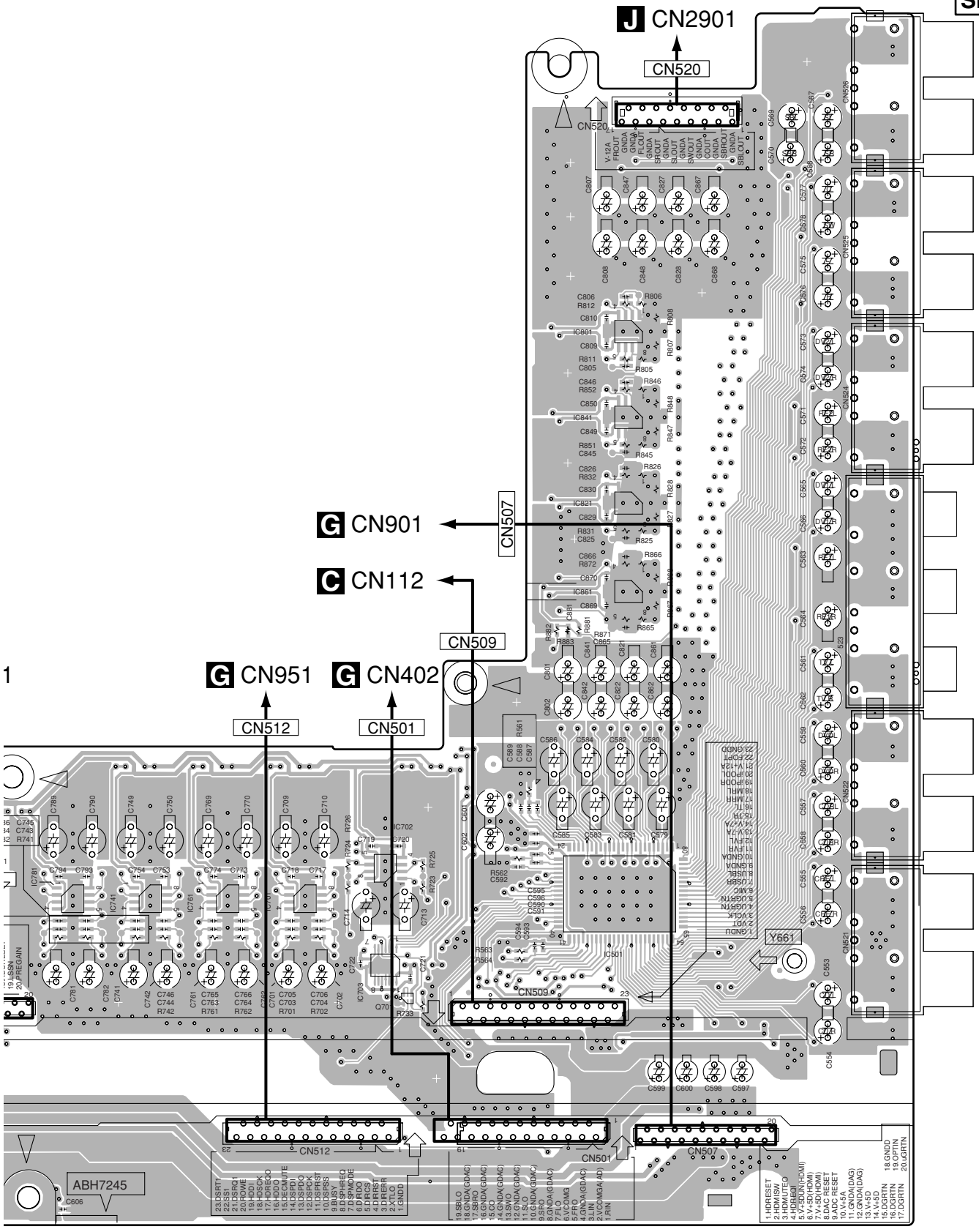
F

4.1 AUDIO IN ASSY

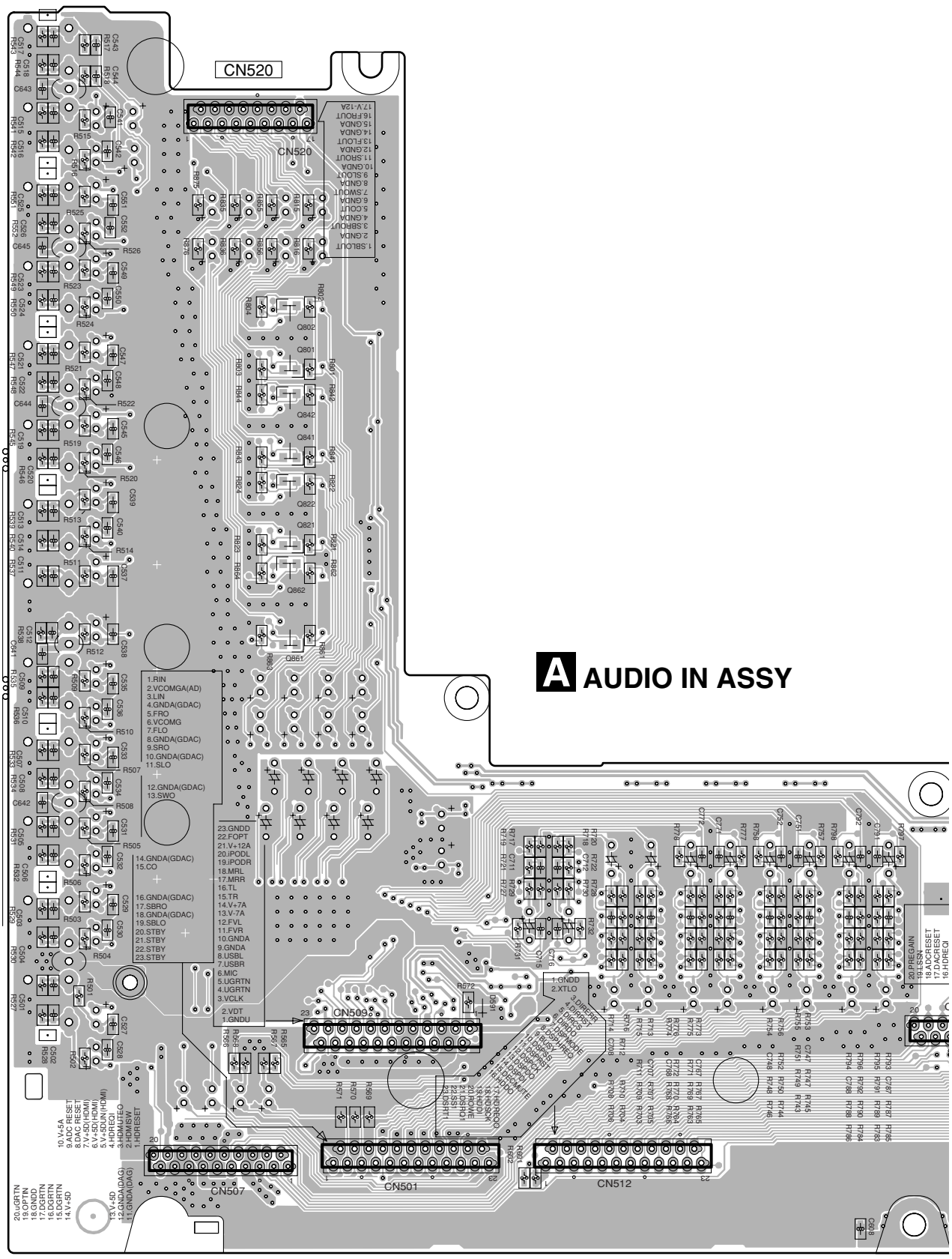
SIDE A



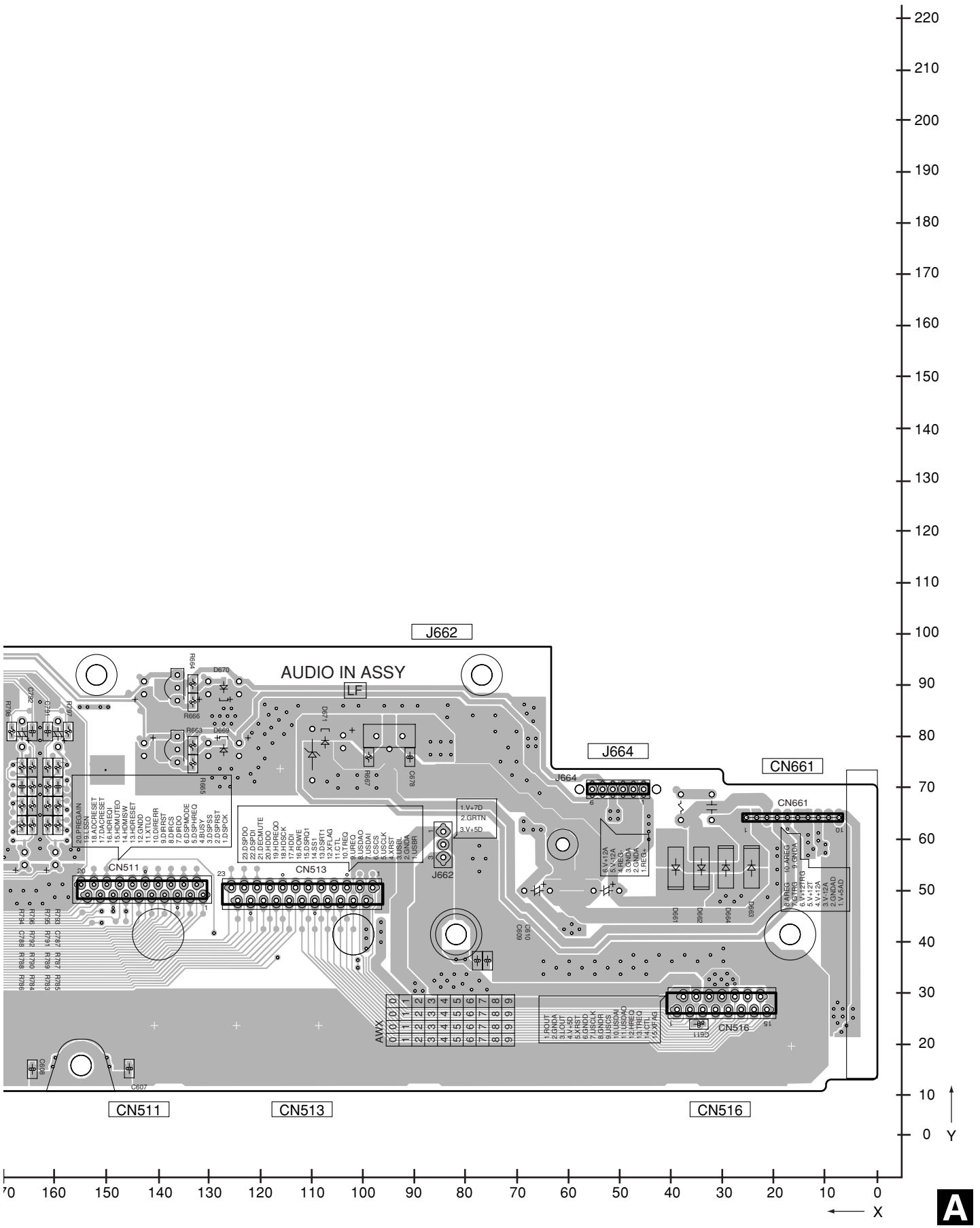
SIDE A


J CN2901
CN520
G CN901
CN507
C CN112
CN509
G CN951
G CN402
CN512
CN501
ABH7245
Y661
(ANP7559-C)

SIDE B



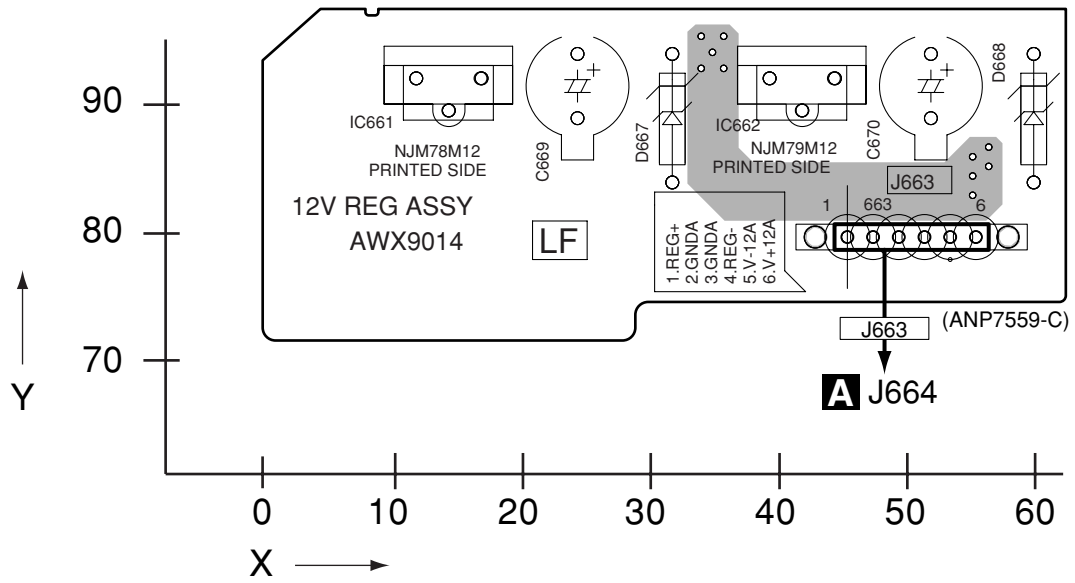
SIDE B

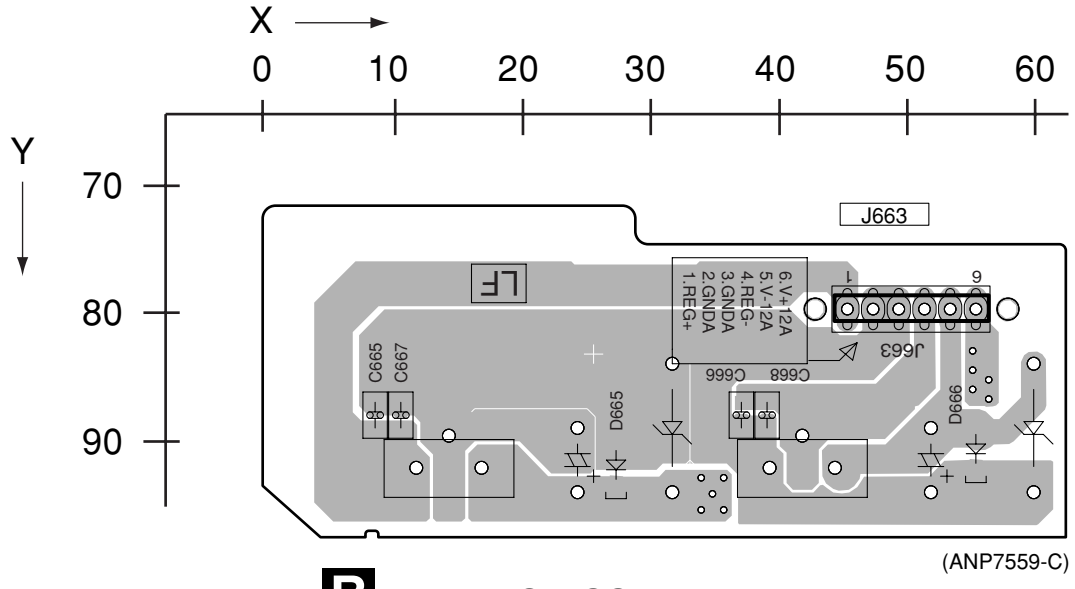

AUDIO IN ASSY
LF
J662
J664
CN661
CN511
CN513
CN516
AWX
0 1 2 3 4 5 6 7 8 9
1.ROUT
2.GNDA
3.LOUT
4.+5D
5.GND
6.GNDR
7.USCLK
8.GNDR
9.USCS
10.USDAI
11.USDAO
12.HREQ
13.TREQ
14.CTL
15.XRAG
1.V+7D
2.GRTN
3.V+5D
6.V+12A
5.V-12A
4.REG-
3.GNDA
2.GNDA
1.REG+
8.AREG-
7.TREG-
6.V+12TRG
5.V+12T
4.V+12A
3.V-12A
2.GNDA
1.V+5AD
23.DSPDO
22.DSPDI
21.DECMUTE
20.HDDO
19.HDREQO
18.HDSCK
17.HDDI
16.ROWE
15.DSRQ1
14.SS1
13.DSRT1
12.CLAG
11.CTL
10.TREQ
9.UREQ
8.USDAO
7.USDAI
6.USCS
5.USCLK
4.XRST
3.USBL
2.GNDA
1.USBR
20.PREGAIN
19.LSSN
18.ADCRESET
17.DACRESET
16.HDREQI
15.HDMUTED
14.HDMISW
13.HDRESET
12.GNDD
11.XTLO
10.DIRERR
9.DIRRST
8.DIRCS
7.DIRDO
6.DIRMODE
5.DSPHREQ
4.BUSY
3.DSPSS
2.DSPRST
1.DSPCK
C607
CN511
CN513
CN516

4.2 12V-REG ASSY

SIDE A **SIDE A**

B 12V-REG ASSY





SIDE B **SIDE B**

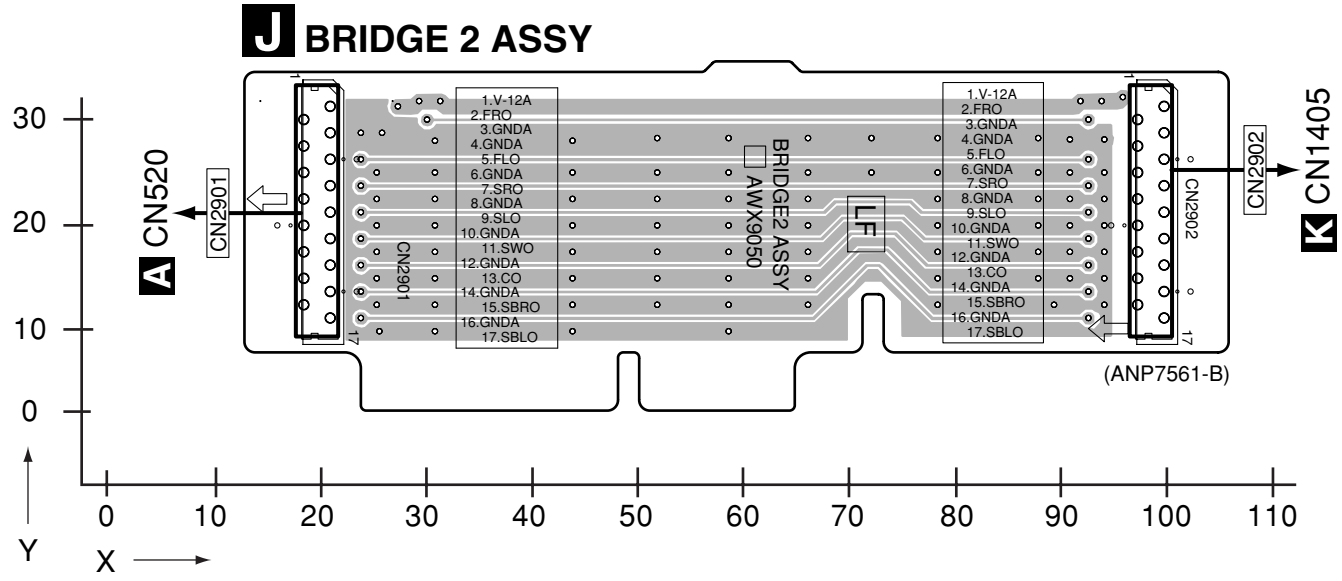
B 12V-REG ASSY

B **B**

4.3 BRIDGE 2 ASSY

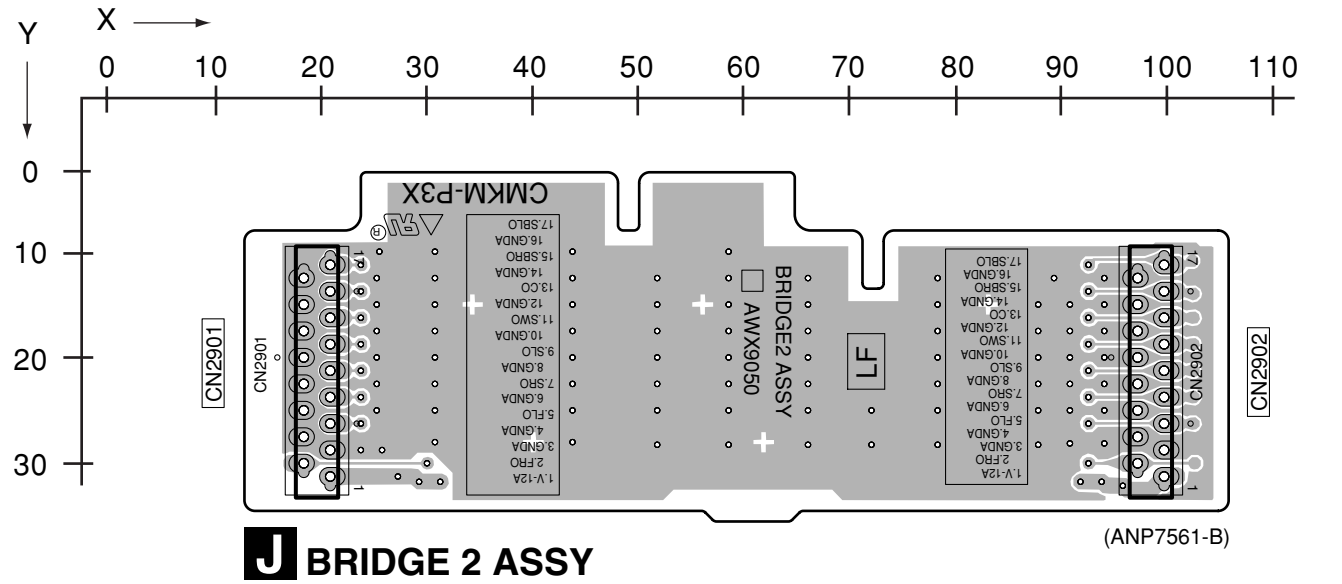
SIDE A

SIDE A



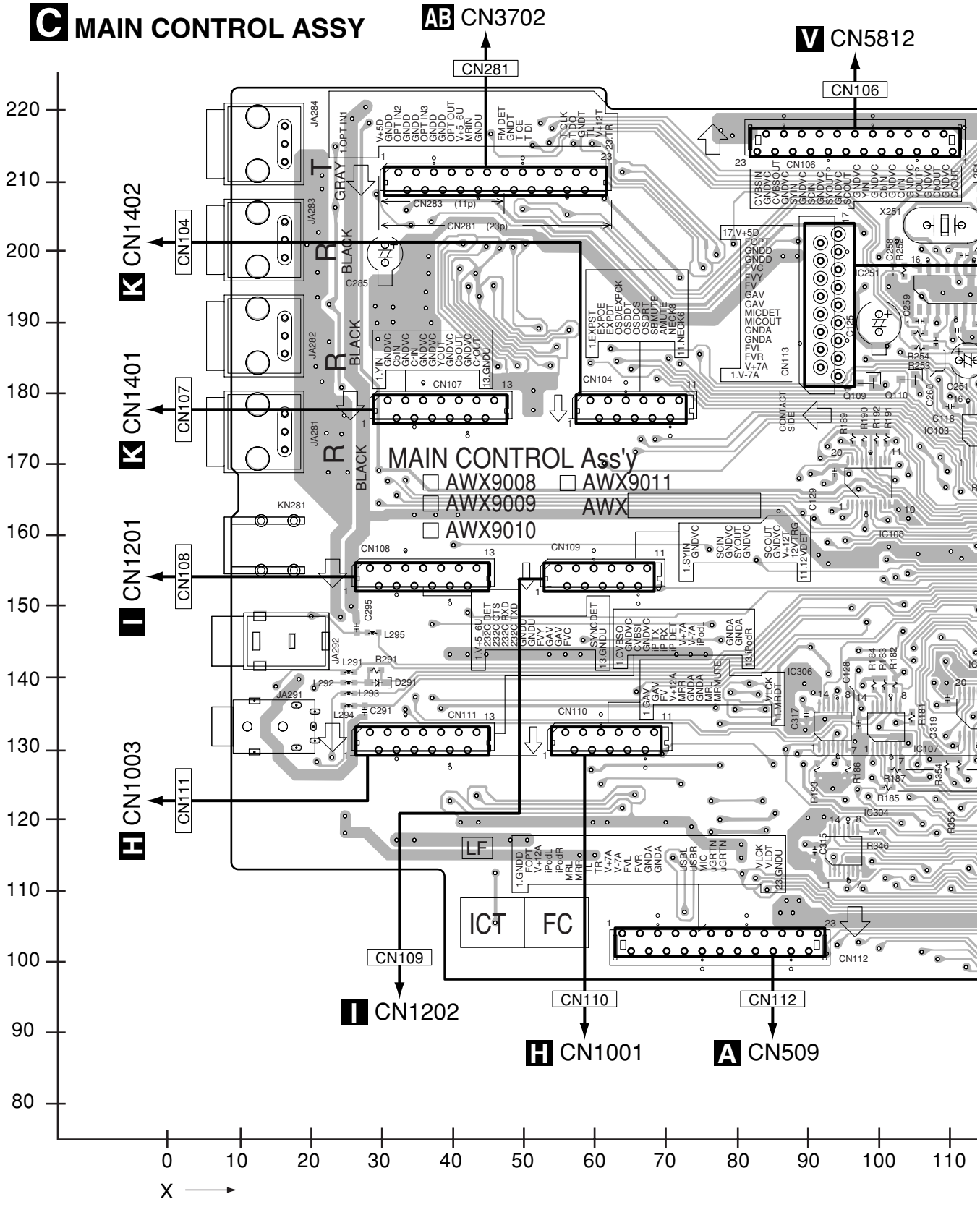
SIDE B

SIDE B

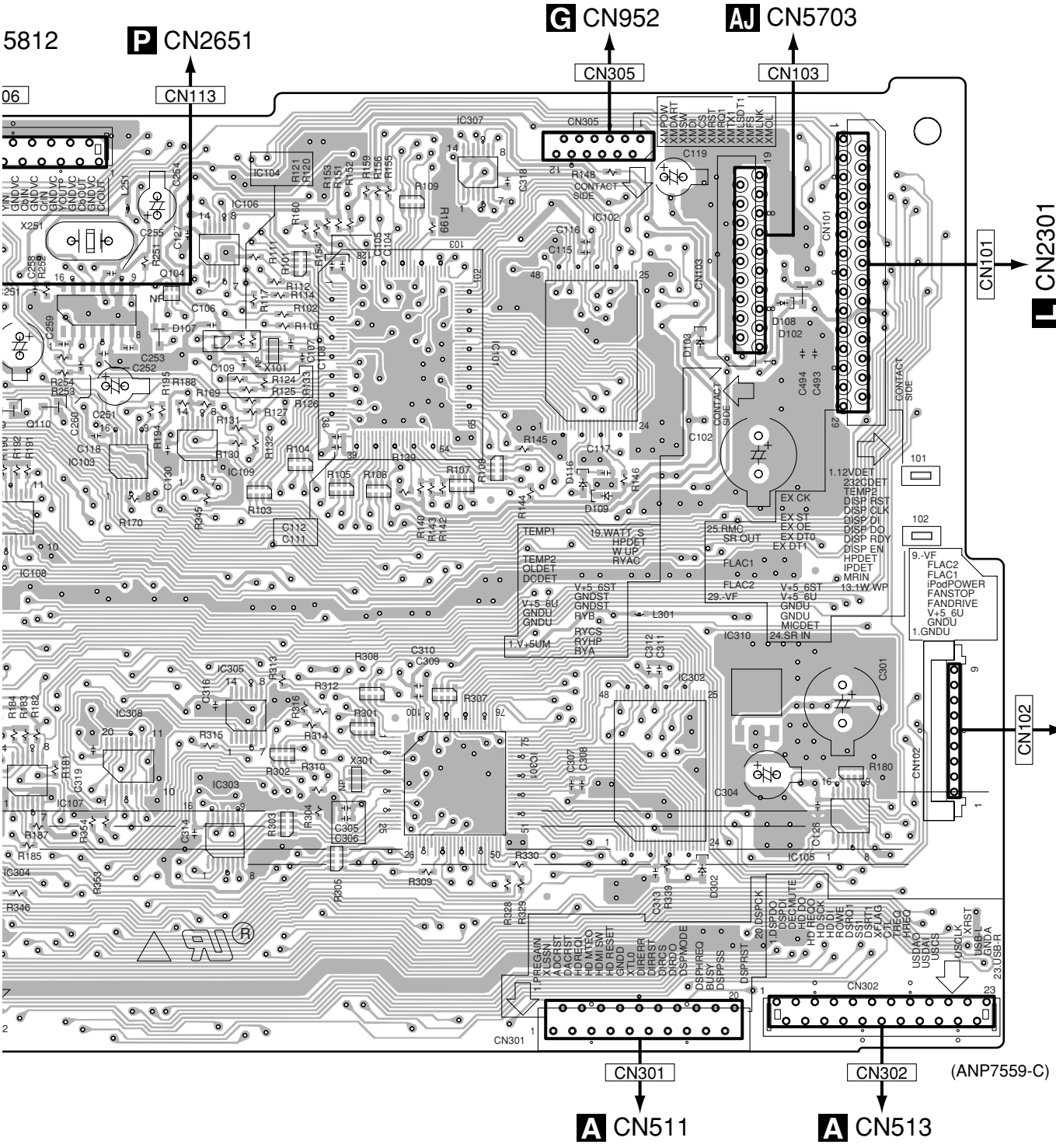


4.4 MAIN CONTROL ASSY

SIDE A

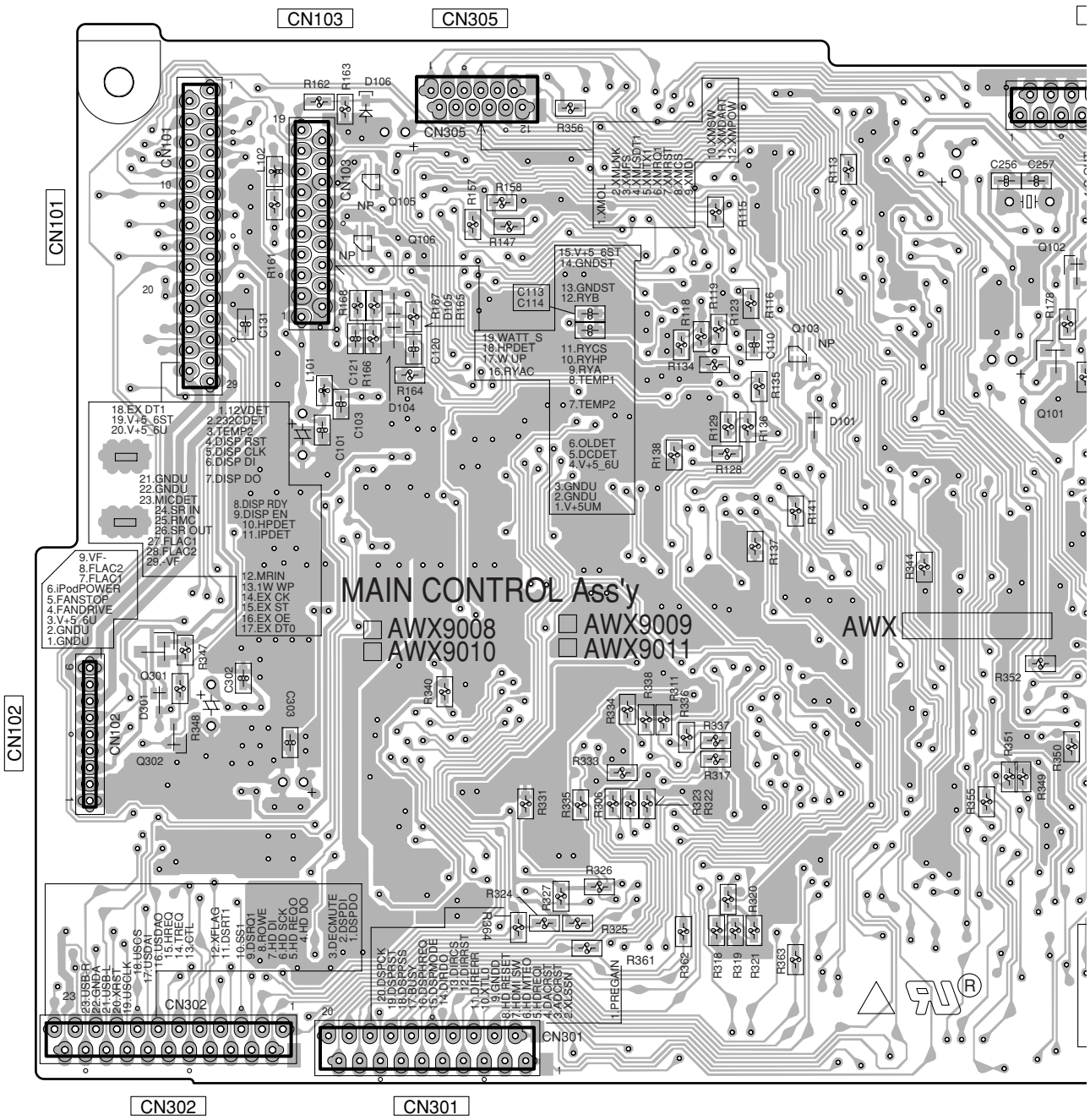


SIDE A

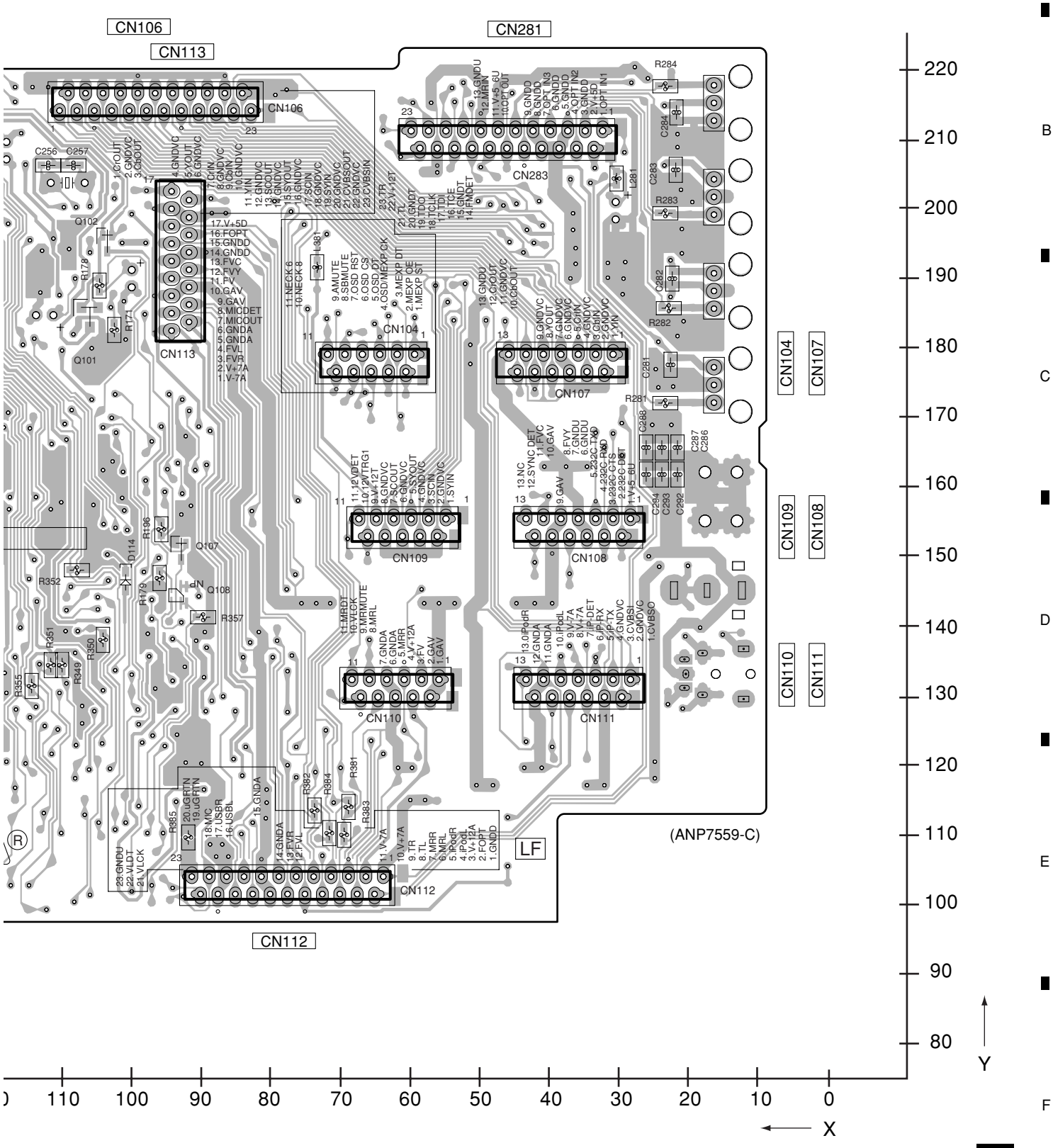

5812
P CN2651
CN113
G CN952
CN305
AJ CN5703
CN103
CN101
L CN2301
CN102
Z J3502
CN301
CN302
A CN511
A CN513
(ANP7559-C)
100 110 120 130 140 150 160 170 180 190 200 210 220 230

SIDE B

C MAIN CONTROL ASSY

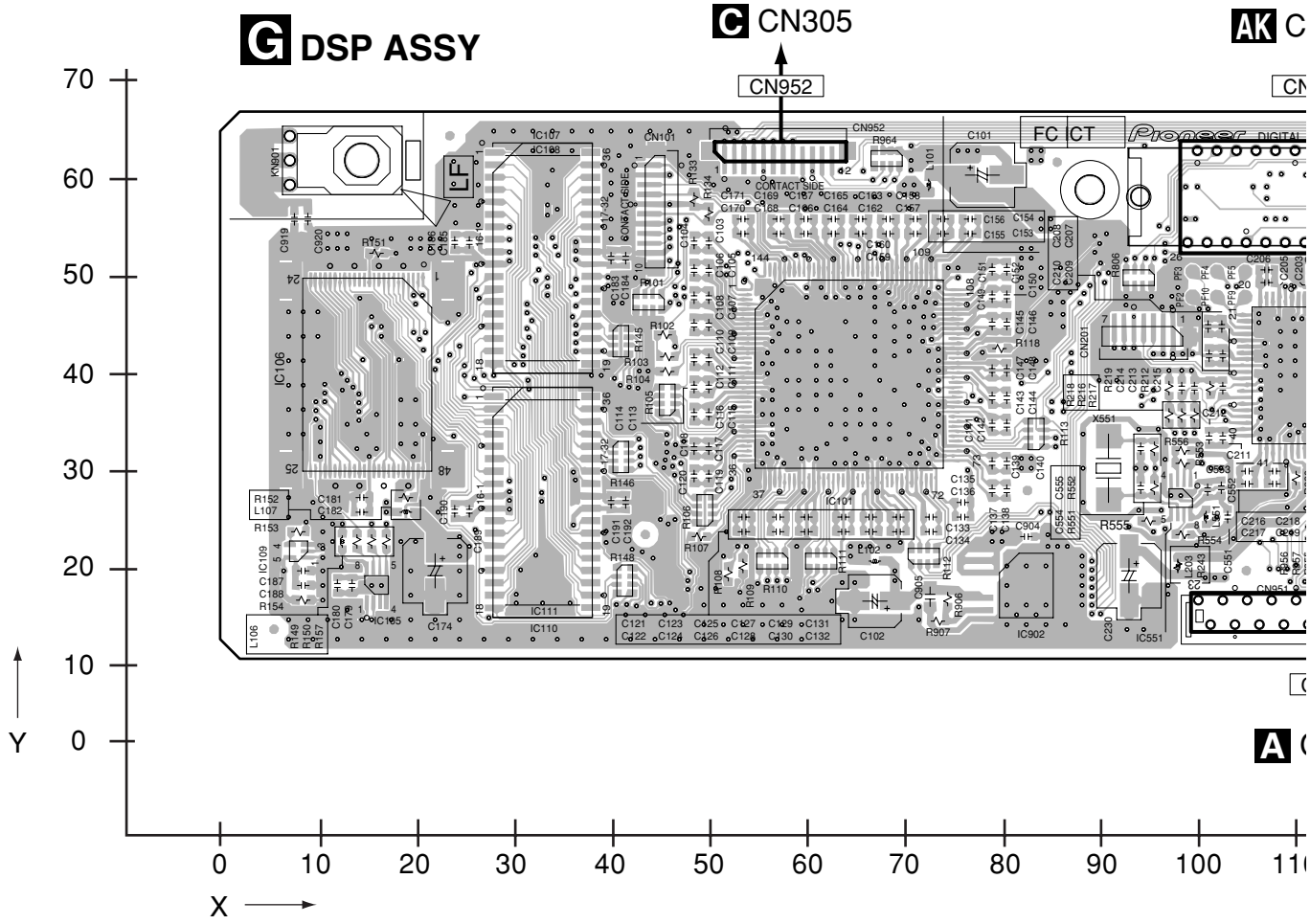


SIDE B

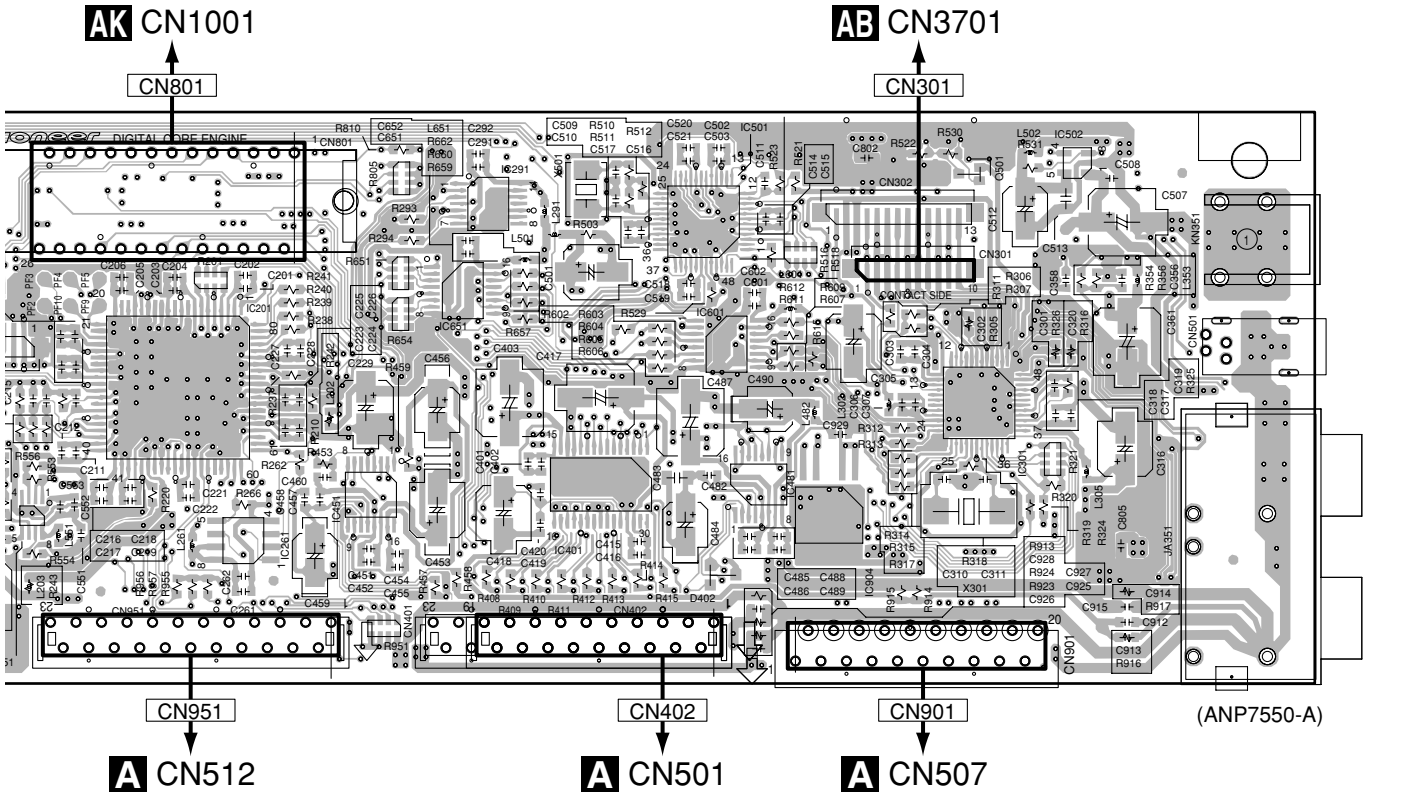

CN106
CN113
CN281
CN283
CN104
CN107
CN109
CN108
CN110
CN111
CN112
LF
(ANP7559-C)
X
Y

4.5 DSP ASSY

SIDE A

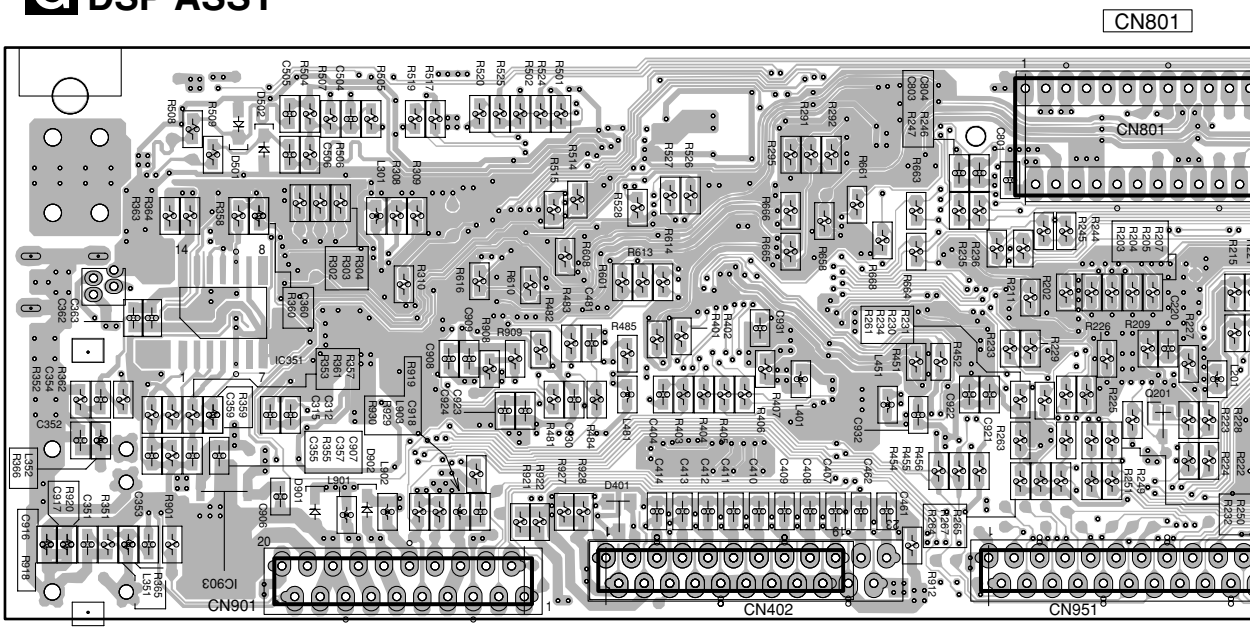


SIDE A

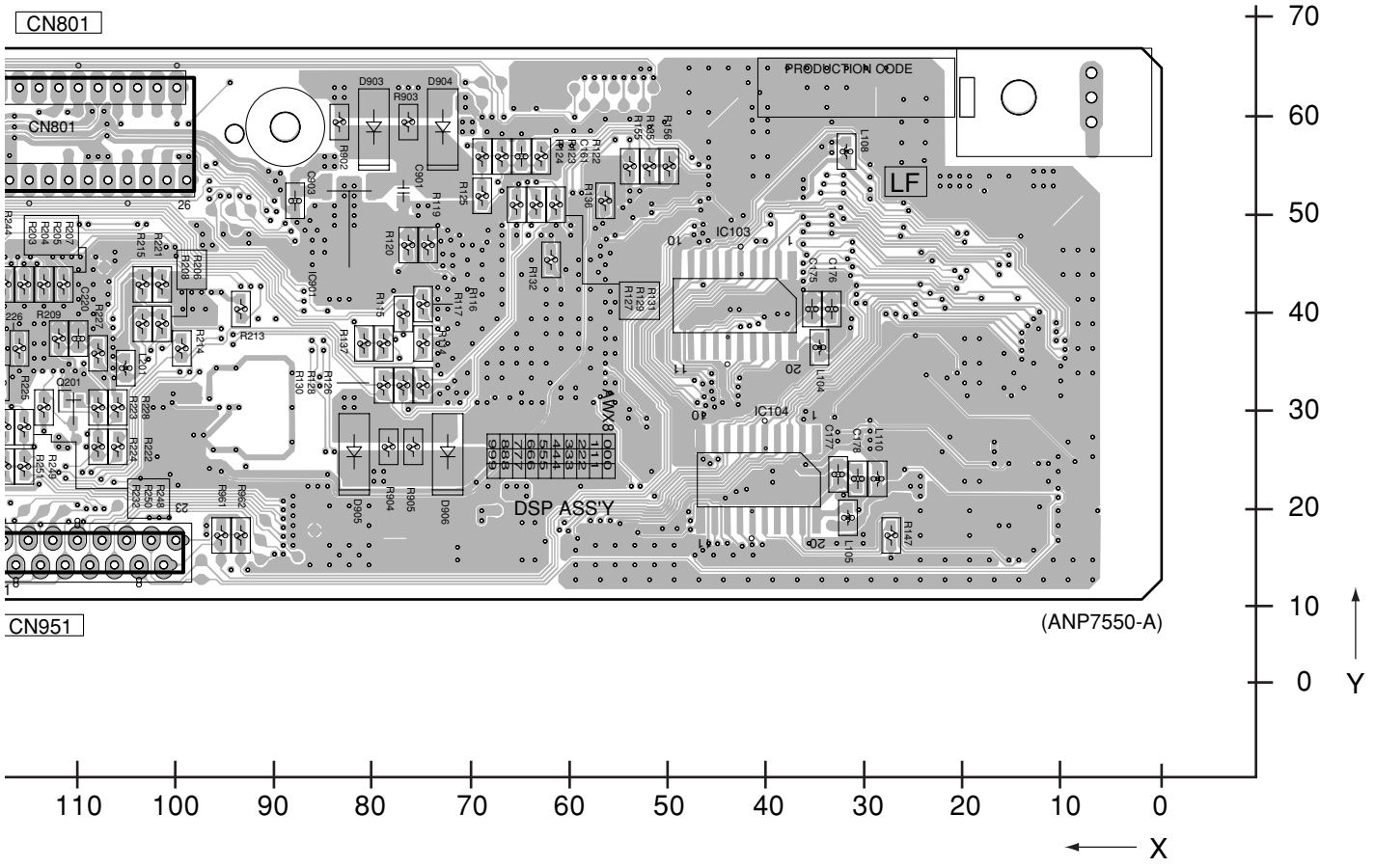

AK CN1001
CN801
AB CN3701
CN301
CN951
CN402
CN901
A CN512
A CN501
A CN507
(ANP7550-A)
100 110 120 130 140 150 160 170 180 190 200 210 220 230

SIDE B

G DSP ASSY



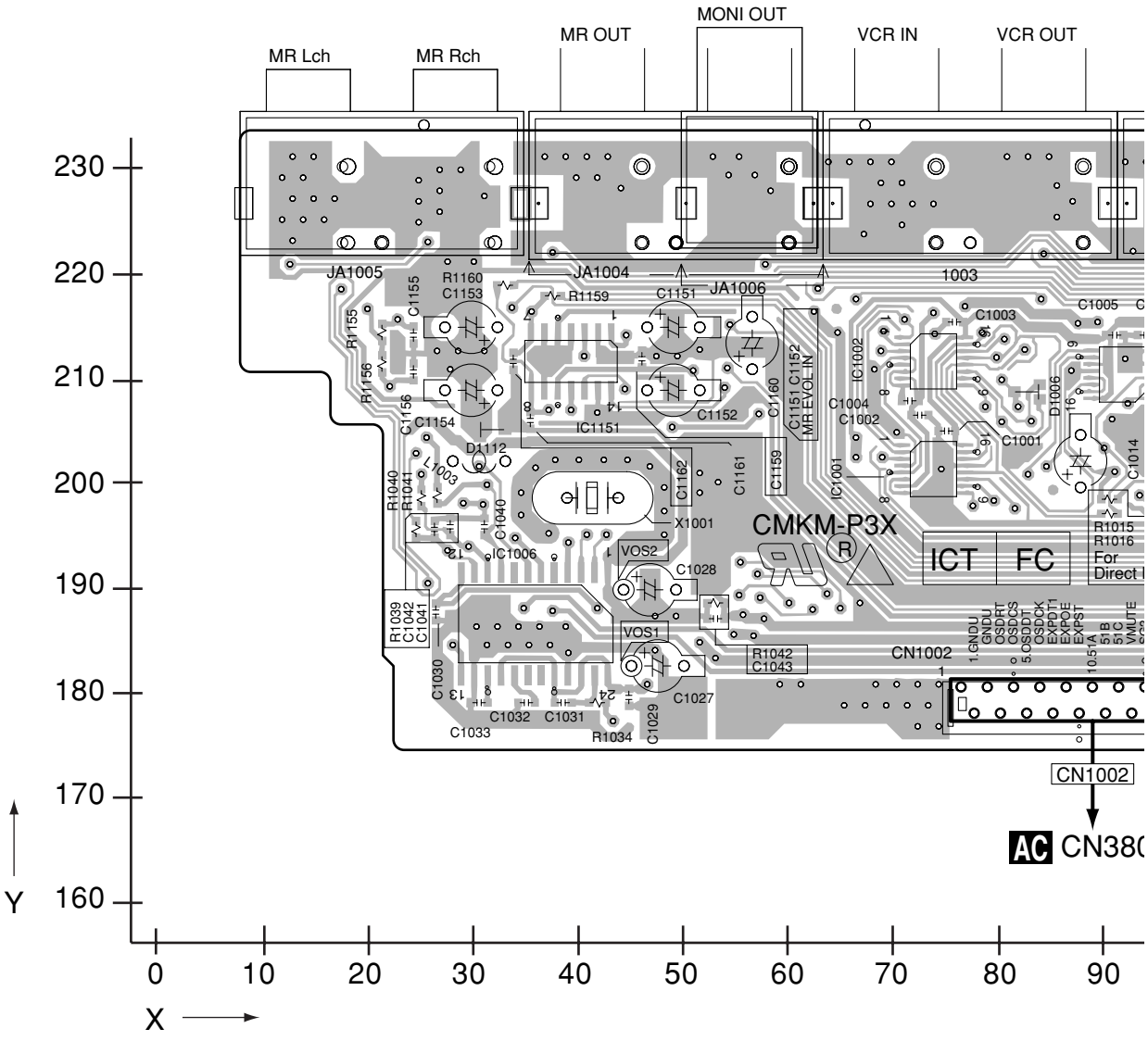
SIDE B


CN801
CN801
CN951
PRODUCTION CODE
LF
IC103
IC104
DSP ASS'Y
AWX8100D
(ANP7550-A)
70
60
50
40
30
20
10
0
Y
110
100
90
80
70
60
50
40
30
20
10
0
X

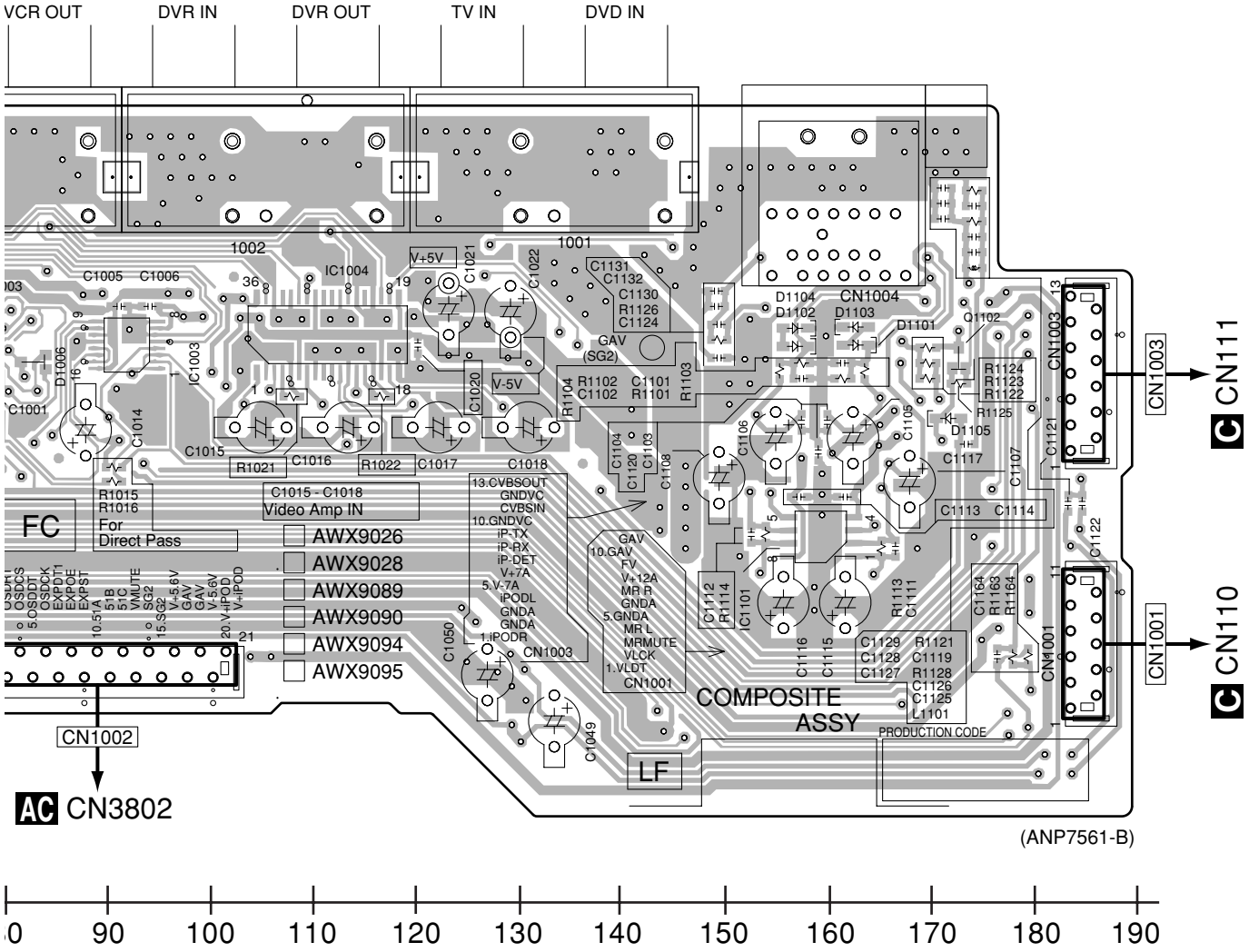
4.6 COMPOSITE ASSY

SIDE A

H COMPOSITE ASSY



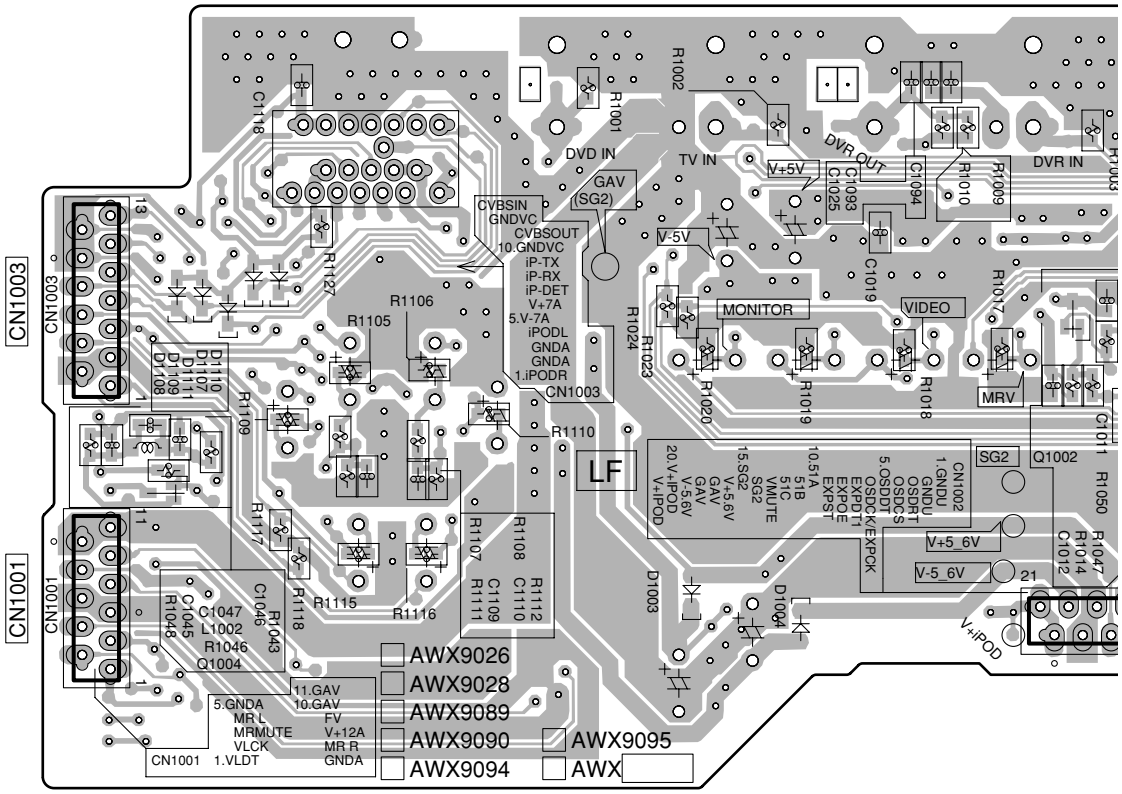
SIDE A



C CN111
C CN110

SIDE B

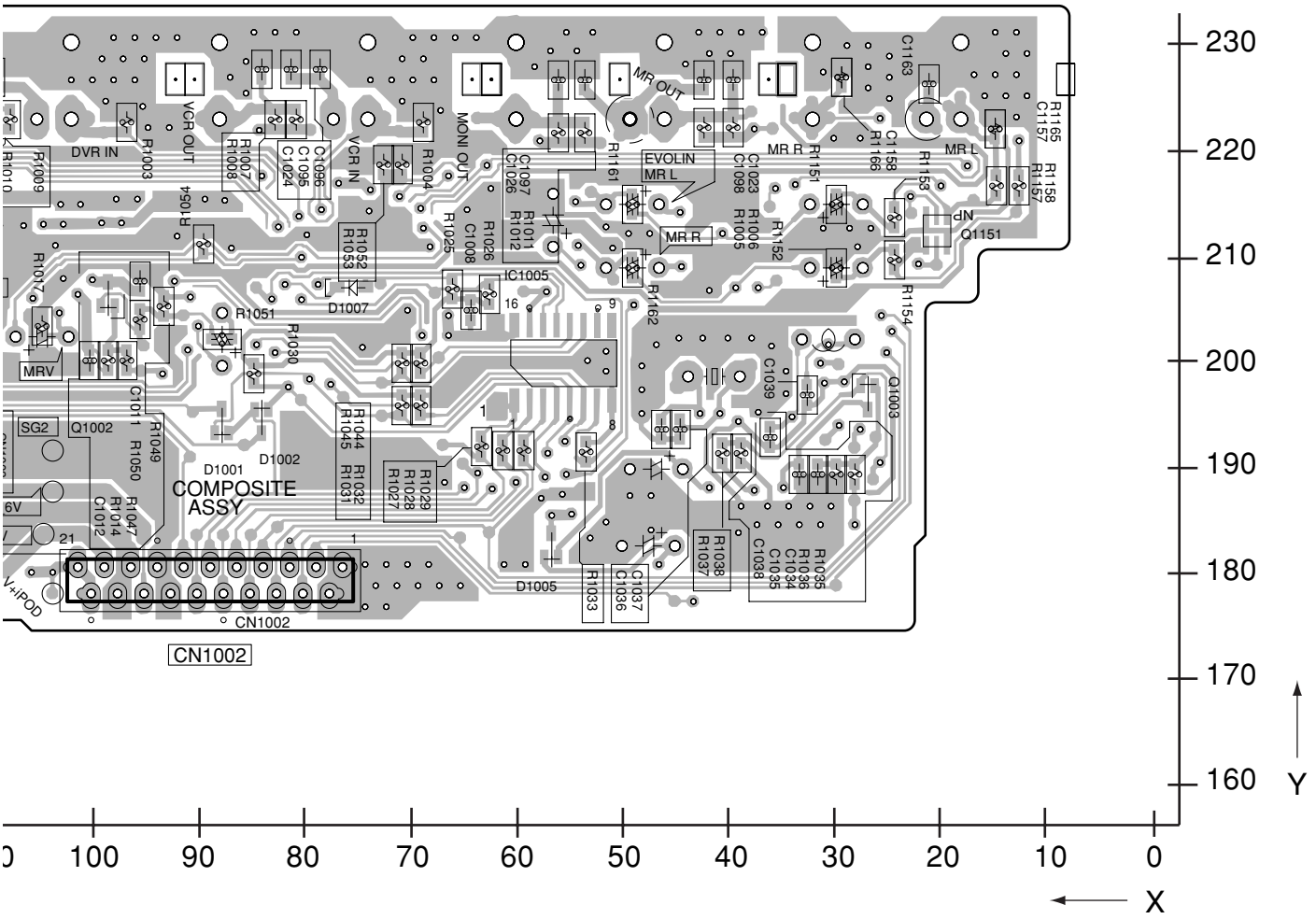
H COMPOSITE ASSY



(ANP7561-B)

190 180 170 160 150 140 130 120 110 100

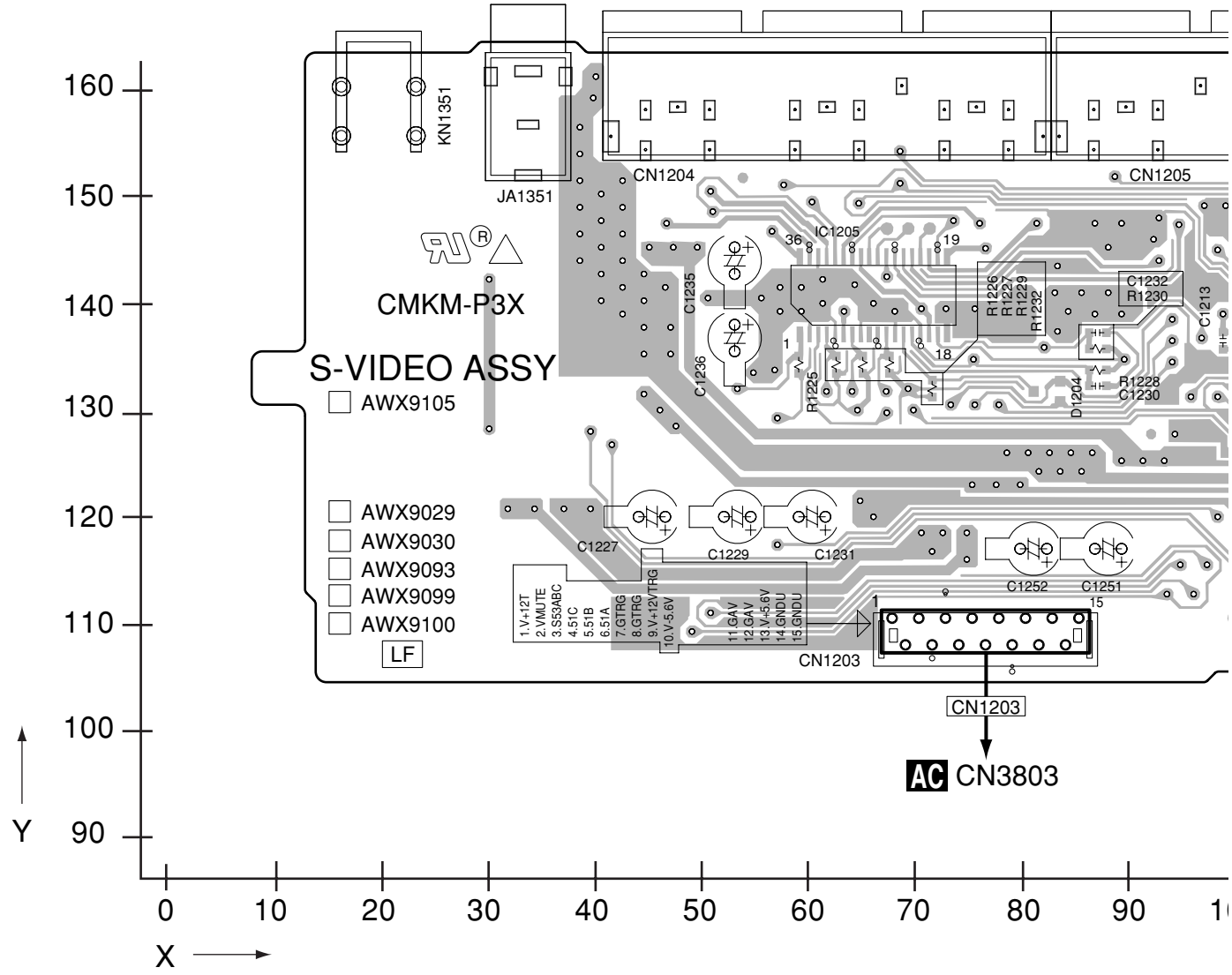
SIDE B


COMPOSITE ASSY
CN1002
CN1002
DVR IN
VCR OUT
VCR IN
MONI OUT
MR OUT
EVOLIN
MR L
MR R
MR R
MR L
NP
Q1151
IC1005
D1001
D1002
D1005
D1007
Q1002
SG2
MRV
R1051
R1030
R1003
R1009
R1010
R1017
R1049
R1050
R1047
R1014
C1011
C1012
R1044
R1045
R1032
R1031
R1029
R1028
R1027
R1033
C1037
C1036
R1038
R1037
C1038
C1039
C1003
R1035
R1036
C1034
C1035
R1154
R1152
R1151
C1158
R1166
R1153
C1163
R1165
C1157
R1158
R1157
R1162
R1161
C1097
C1026
R1011
R1012
R1025
C1008
R1026
R1052
R1053
R1064
R1007
R1008
C1095
C1024
C1096
R1004
C1023
C1098
R1006
R1005
230
220
210
200
190
180
170
160
Y
100
90
80
70
60
50
40
30
20
10
0
X

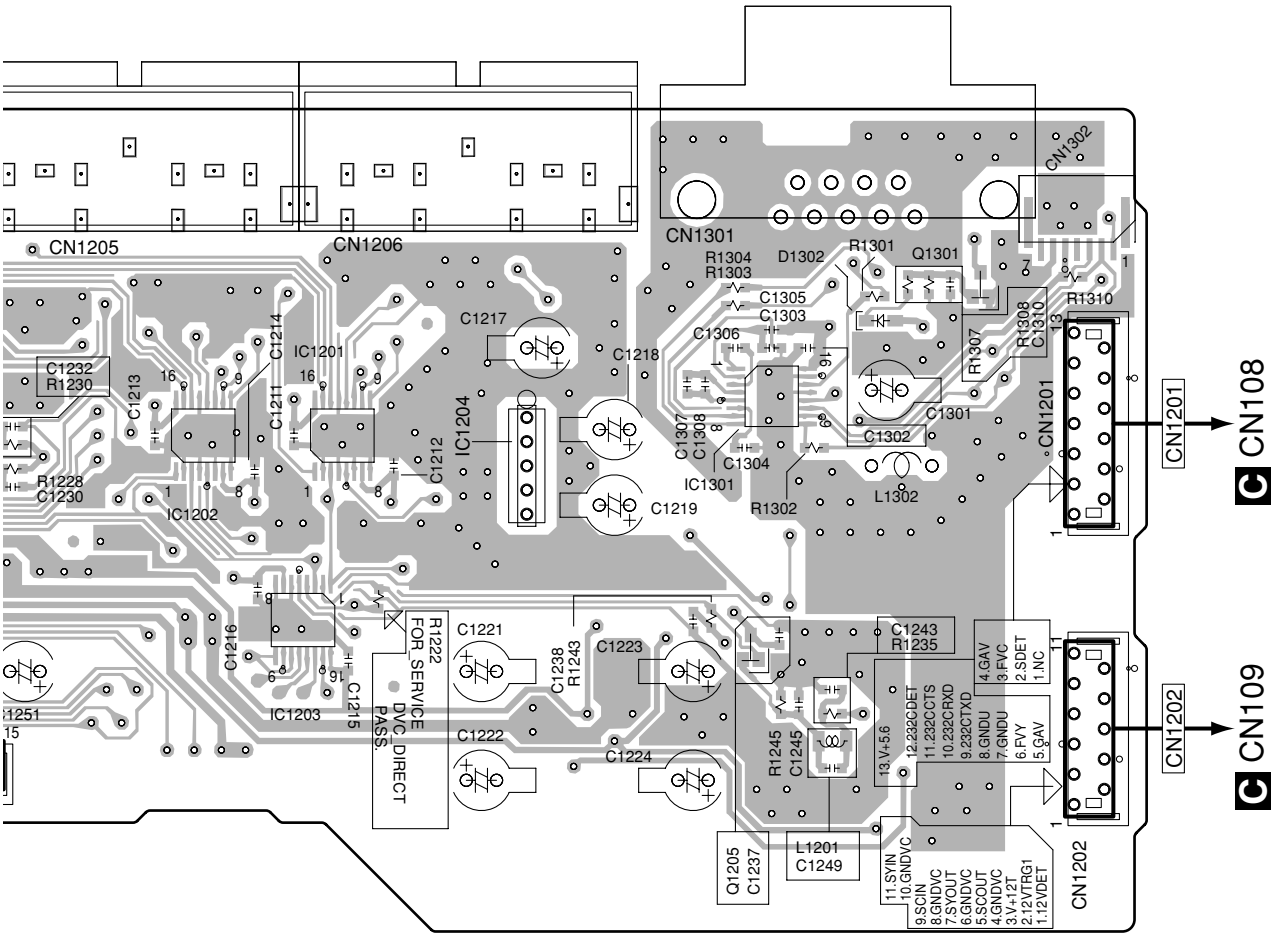
4.7 S-VIDEO ASSY

SIDE A

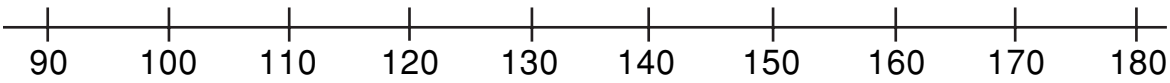
S-VIDEO ASSY



SIDE A

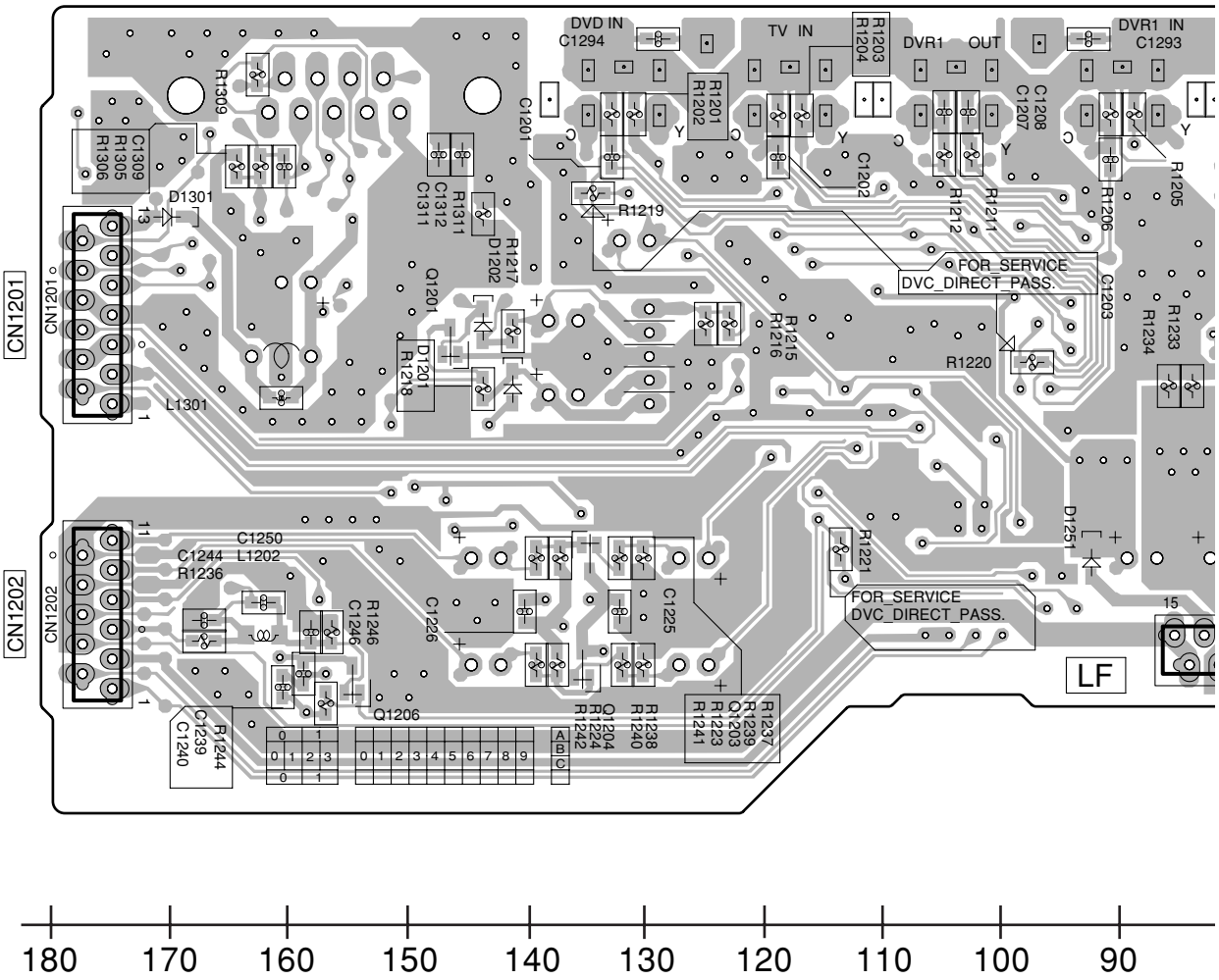


(ANP7561-B)

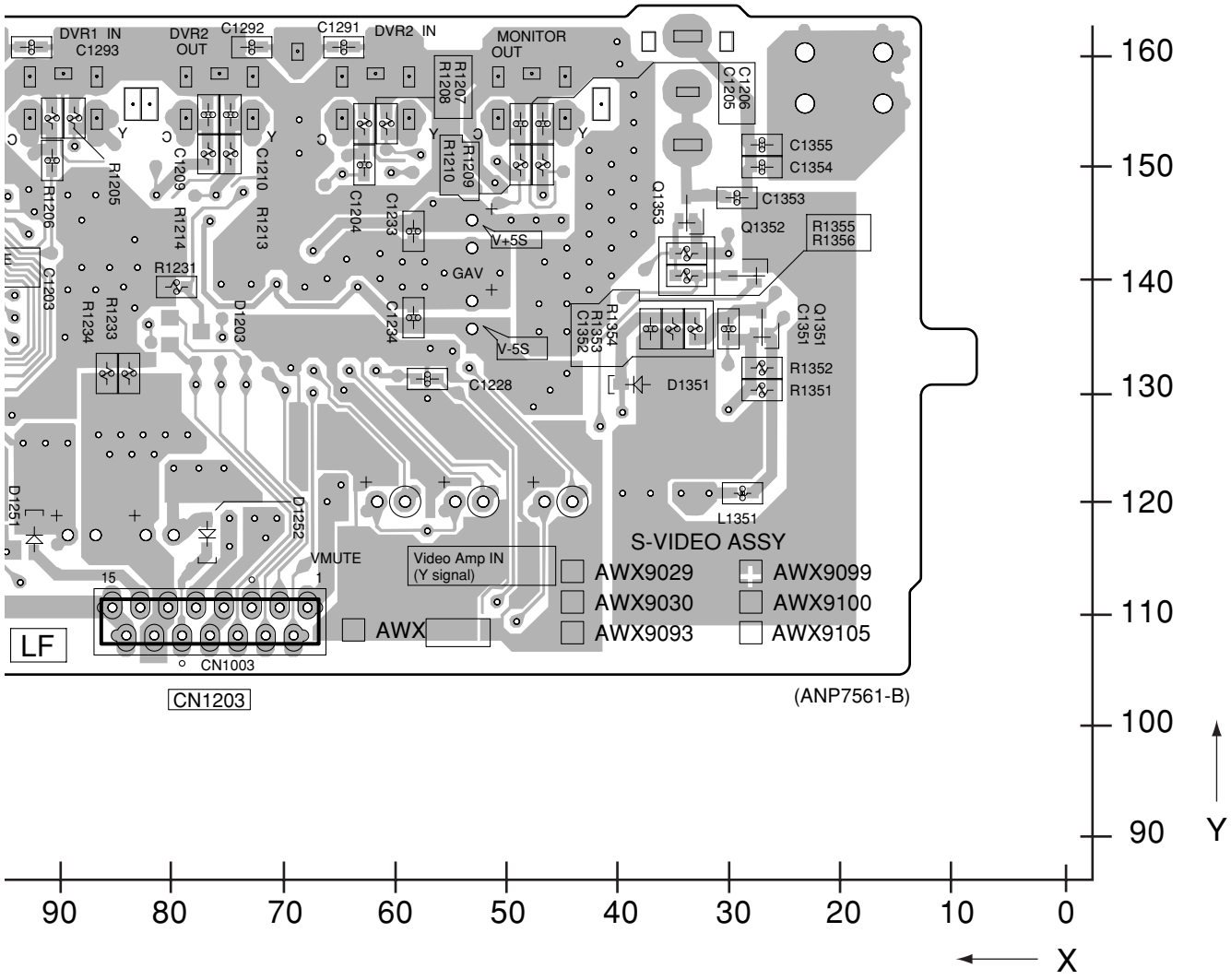


SIDE B

S-VIDEO ASSY



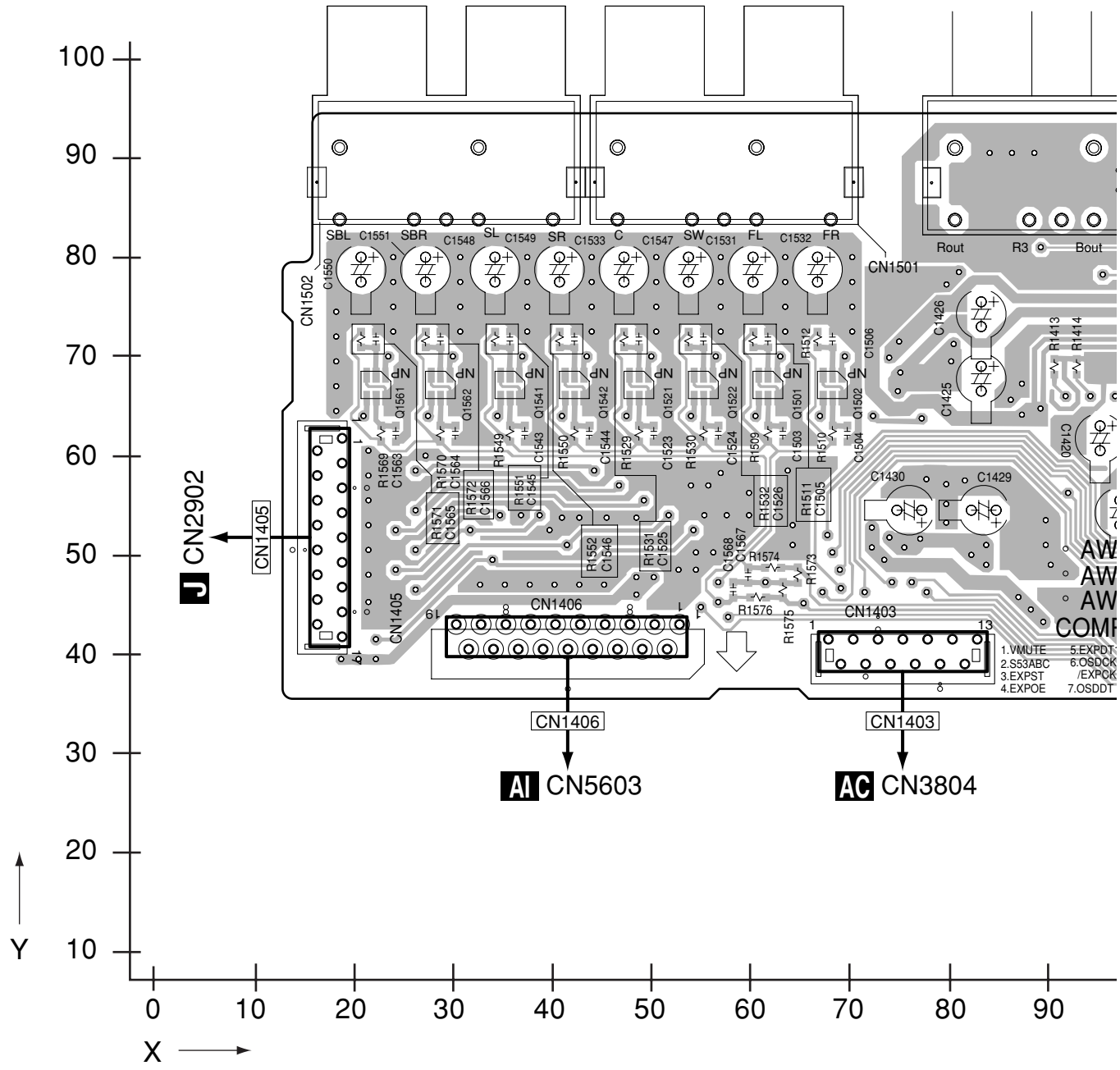
SIDE B


DVR1 IN
C1293
DVR2 OUT
C1292
C1291
DVR2 IN
MONITOR OUT
R1207
R1208
R1209
R1210
C1206
C1205
C1355
C1354
C1353
Q1353
Q1352
R1355
R1356
V+5S
GAV
V-5S
C1228
D1351
Q1351
C1351
R1352
R1351
L1351
R1354
R1353
C1352
C1234
C1233
C1204
C1209
C1210
R1213
R1214
R1205
R1206
C1203
R1231
R1234
R1233
D1203
D1251
D1252
VMUTE
Video Amp IN
(Y signal)
S-VIDEO ASSY
AWX9029
AWX9030
AWX9093
AWX9099
AWX9100
AWX9105
AWX
LF
CN1003
CN1203
(ANP7561-B)
160
150
140
130
120
110
100
90
Y
90
80
70
60
50
40
30
20
10
0
X

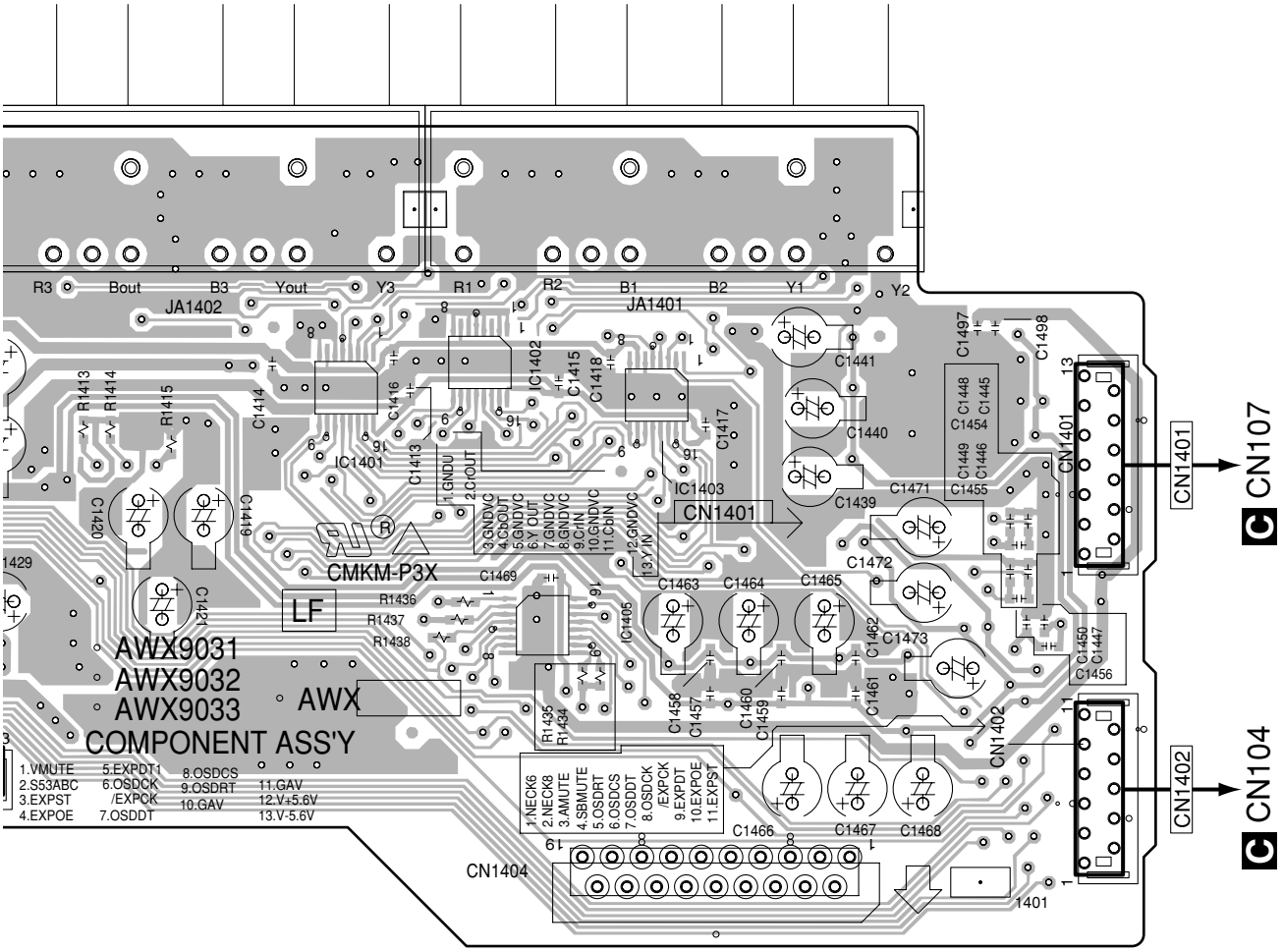
4.8 COMPONENT ASSY

SIDE A

K COMPONENT ASSY



SIDE A



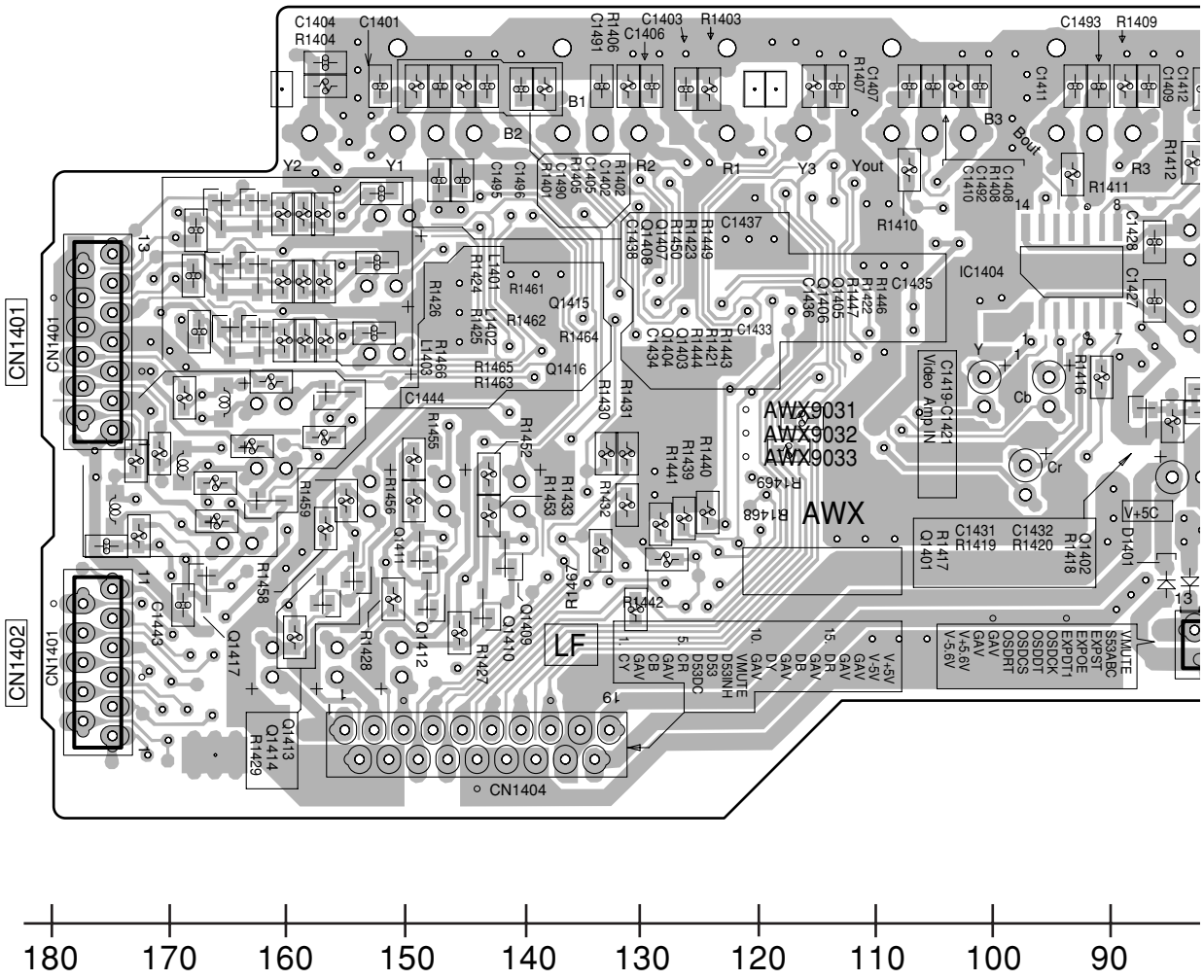
(ANP7561-B)

C CN107

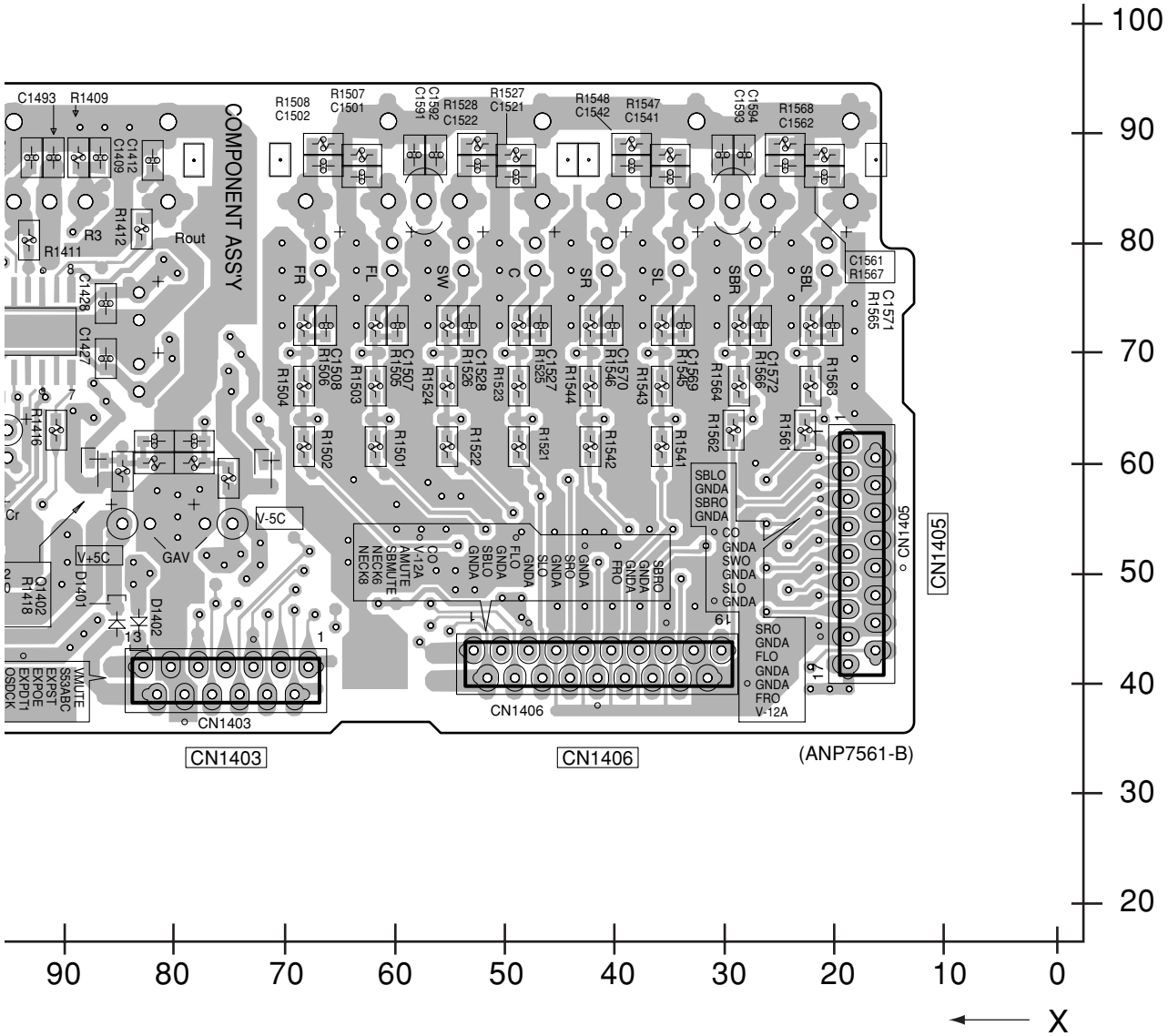
C CN104

SIDE B

K COMPONENT ASSY



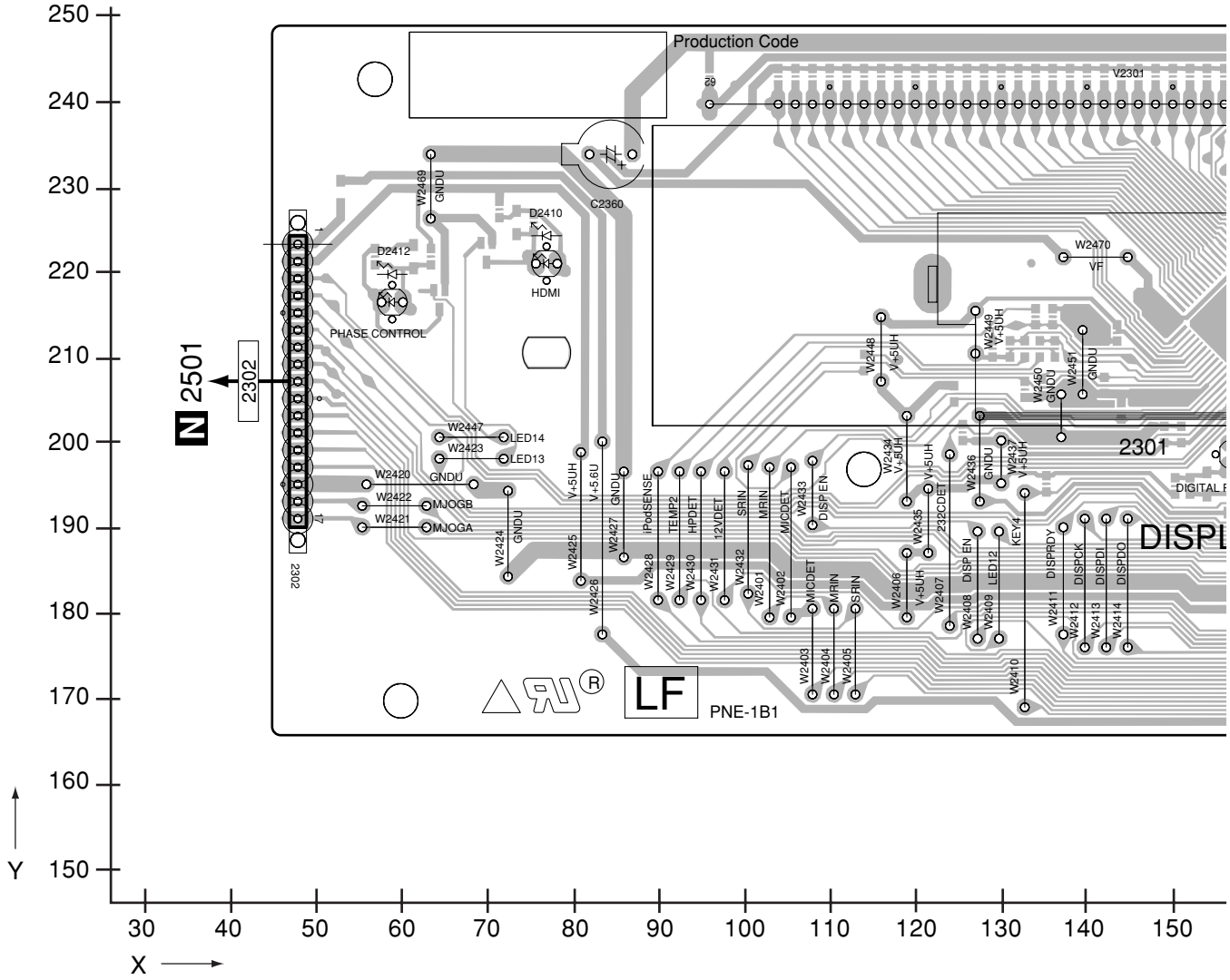
SIDE B


COMPONENT ASS'Y
CN1403
CN1406
CN1405
(ANP7561-B)
100
90
80
70
60
50
40
30
20
Y
90
80
70
60
50
40
30
20
10
0
X

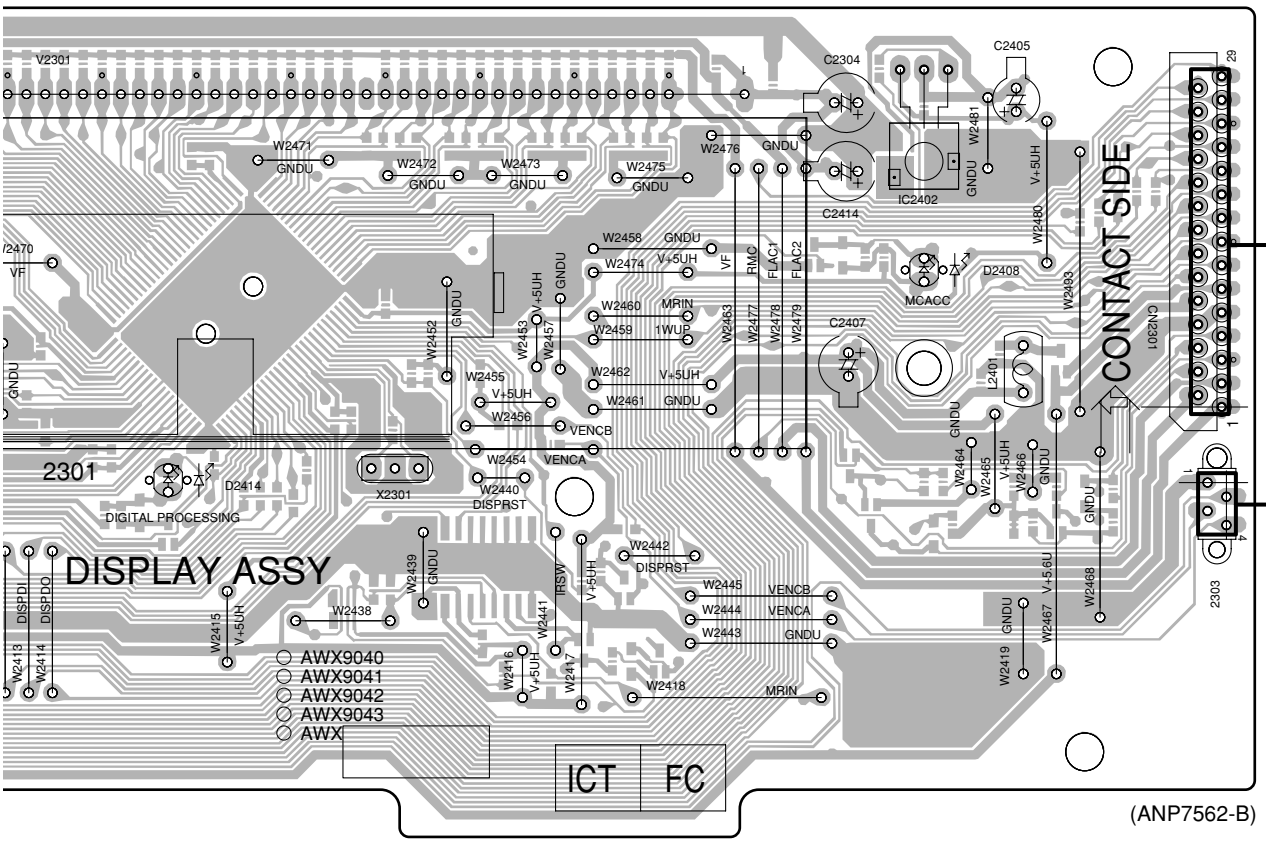
4.9 DISPLAY ASSY

SIDE A

L DISPLAY ASSY

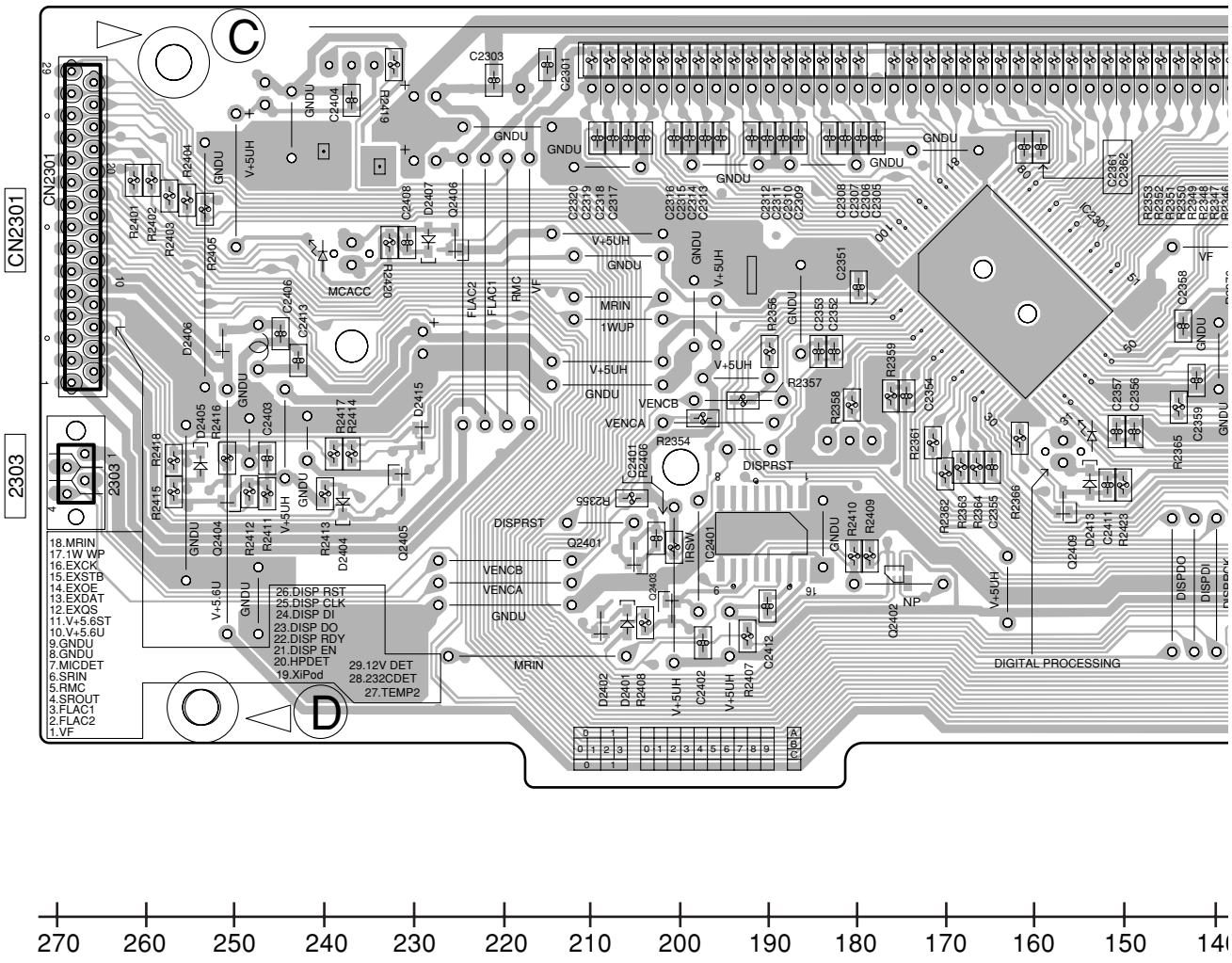


SIDE A

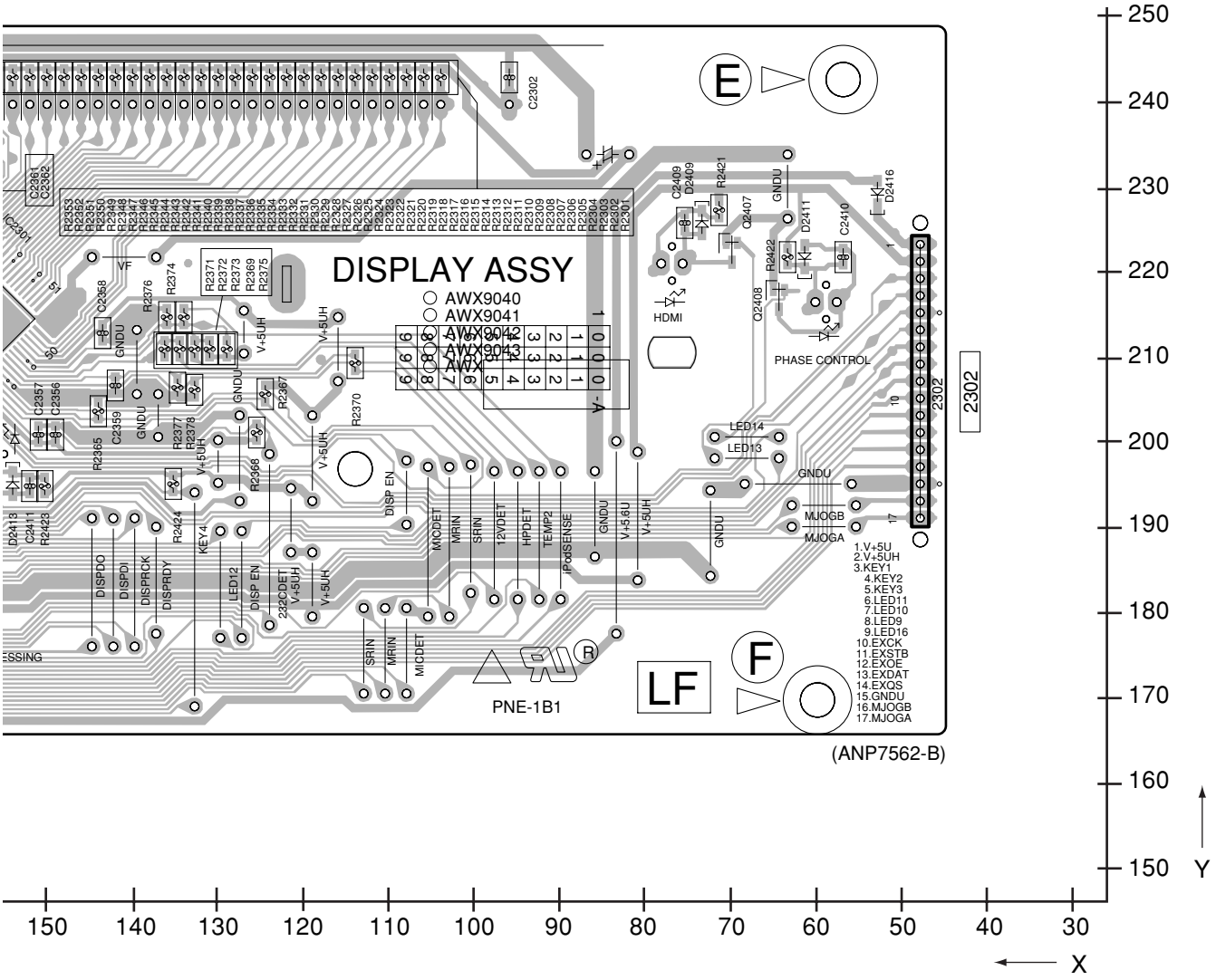

DISPLAY ASSY
2301
DIGITAL PROCESSING
D2414
X2301
V2301
C2304
C2405
C2414
IC2402
D2408
MCACC
C2407
L2401
CONTACT SIDE
CN2301
CN101
2303
2451
W2471
W2472
W2473
W2475
W2476
W2481
W2480
W2493
W2458
W2474
W2460
W2459
W2462
W2461
W2455
W2456
W2454
W2452
W2453
W2457
W2463
W2477
W2478
W2479
W2464
W2465
W2466
W2467
W2468
W2419
W2439
W2440
W2442
W2445
W2444
W2443
W2438
W2415
W2413
W2414
W2416
W2417
W2418
W2441
GNDU
V+5UH
VF
RMC
FLAC1
FLAC2
MRIN
1WUP
VENCB
VENCA
DISPRST
IRSW
DISPDI
DISPDO
V+5.6U
AWX9040
AWX9041
AWX9042
AWX9043
AWX
ICT
FC
(ANP7562-B)

SIDE B

L DISPLAY ASSY

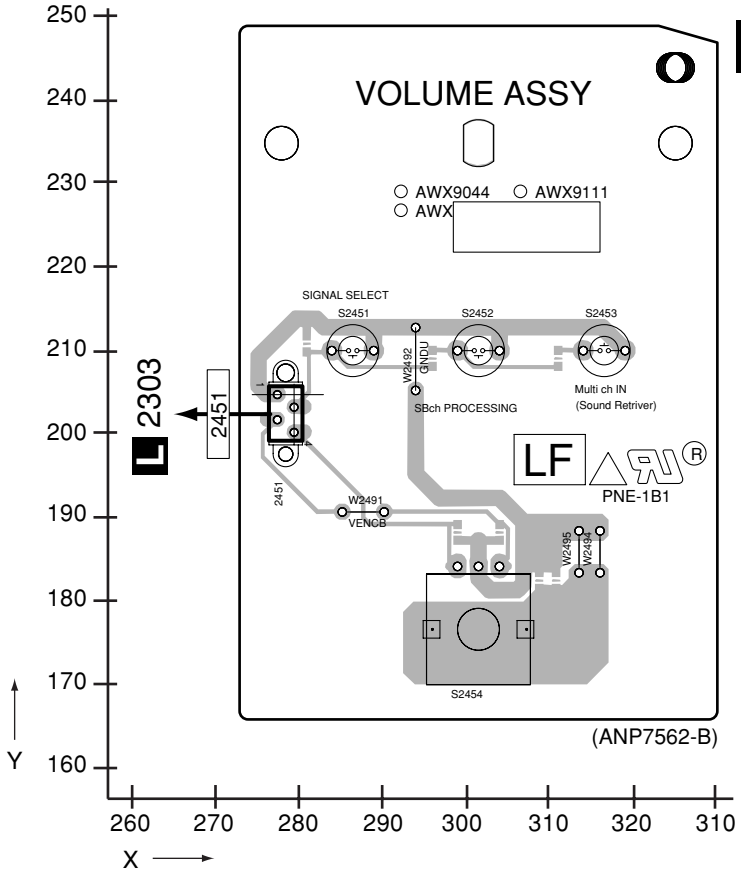


SIDE B


DISPLAY ASSY
AWX9040
AWX9041
AWX9042
AWX9043
AWX
PNE-1B1
LF
E
F
HDMI
PHASE CONTROL
2302
(ANP7562-B)
1.V+5U
2.V+5UH
3.KEY1
4.KEY2
5.KEY3
6.LED11
7.LED10
8.LED9
9.LED16
10.EXCK
11.EXSTB
12.EXOE
13.EXDAT
14.EXQS
15.GNDU
16.MJOGB
17.MJOGA
250
240
230
220
210
200
190
180
170
160
150
Y
150 140 130 120 110 100 90 80 70 60 50 40 30
X

4.10 VOLUME ASSY

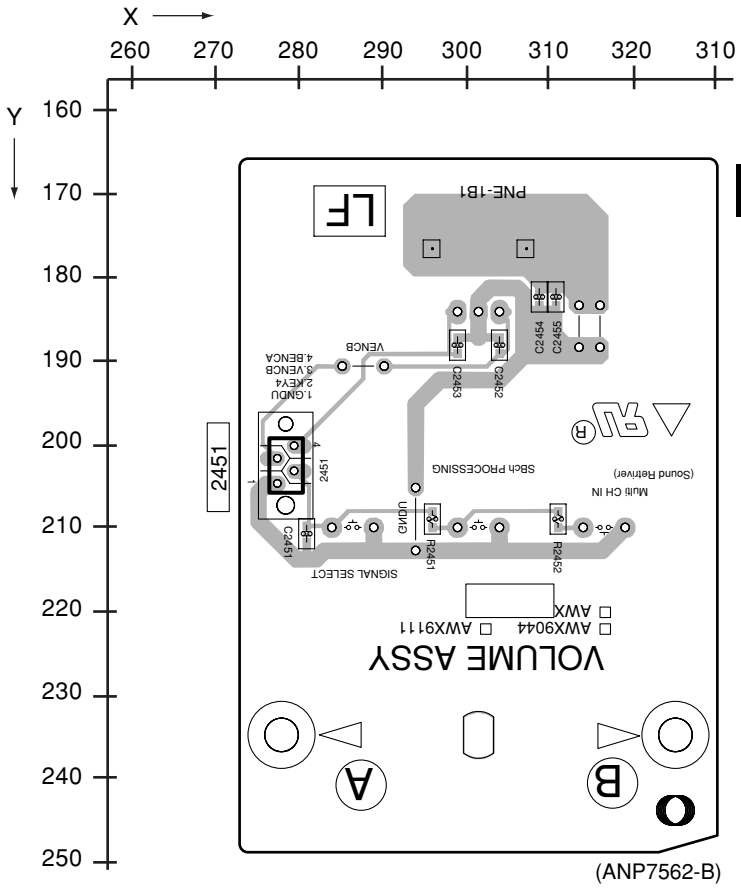
SIDE A



SIDE A

M VOLUME ASSY

SIDE B

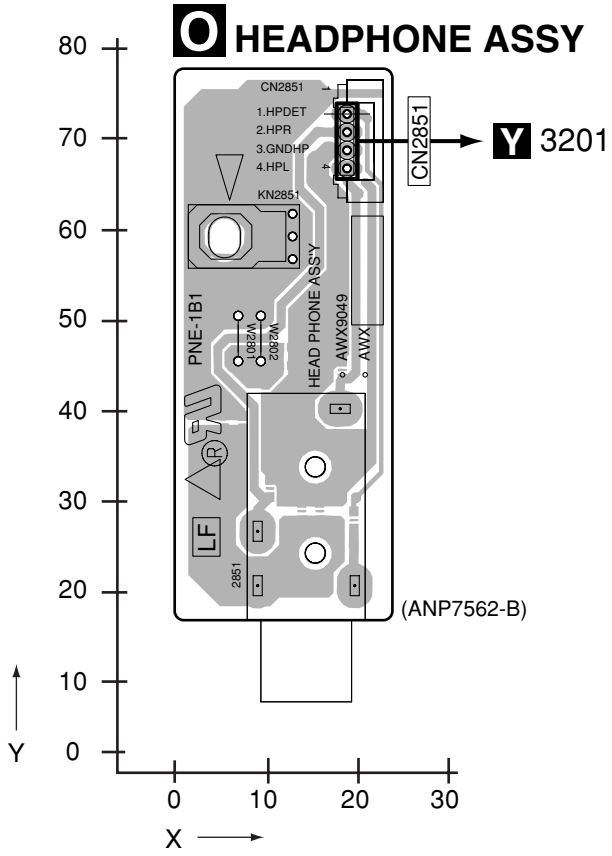


SIDE B

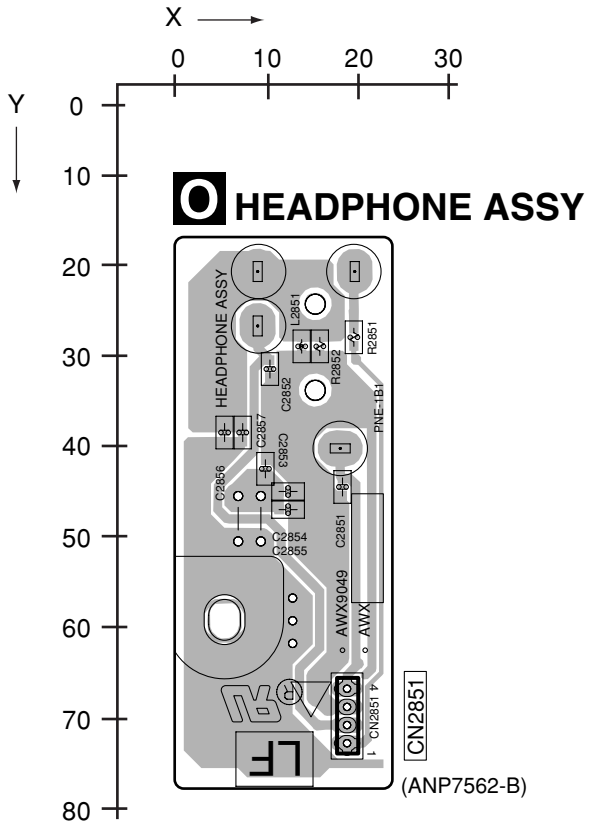
M VOLUME ASSY

4.11 HEADPHONE ASSY

SIDE A



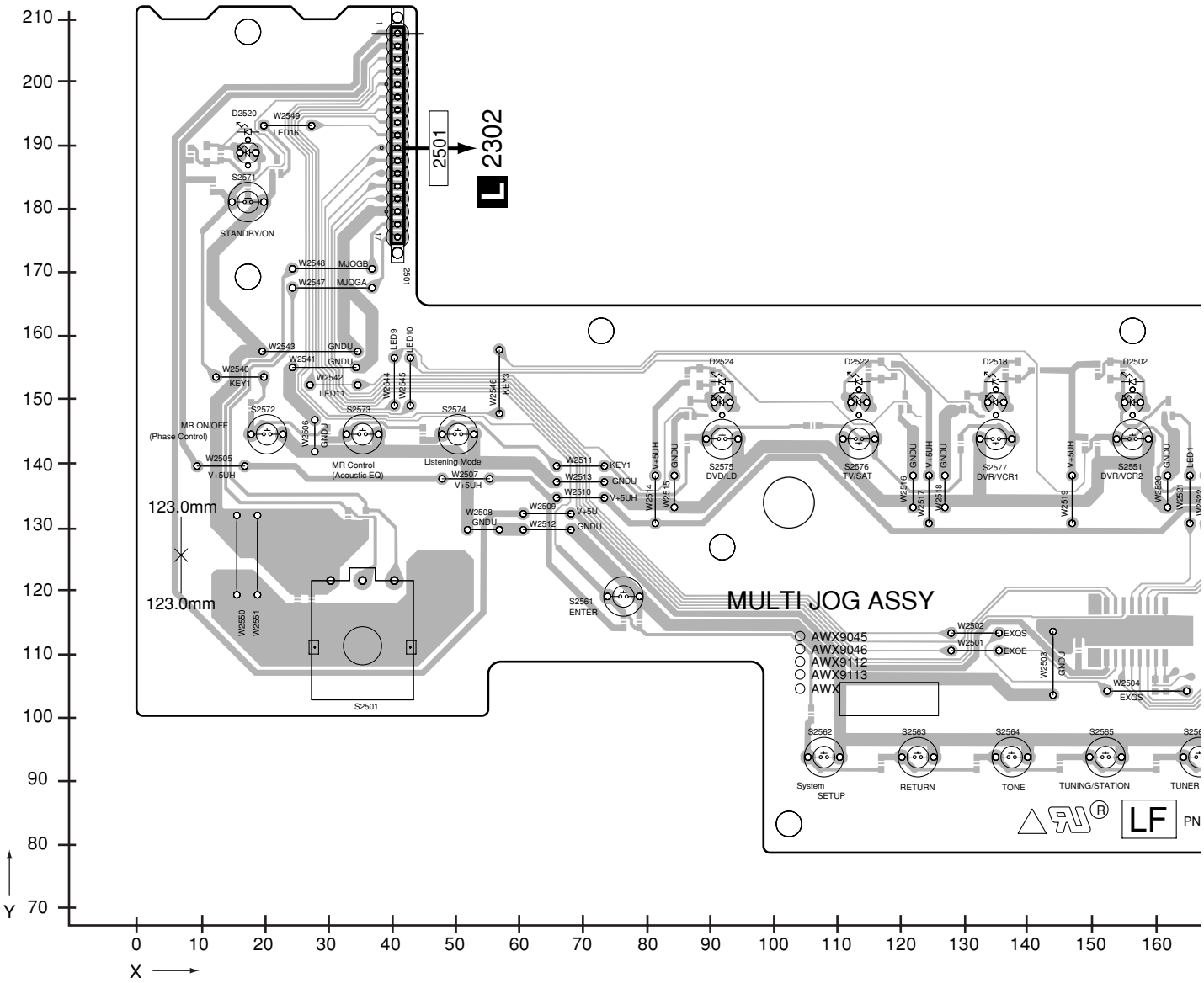
SIDE B



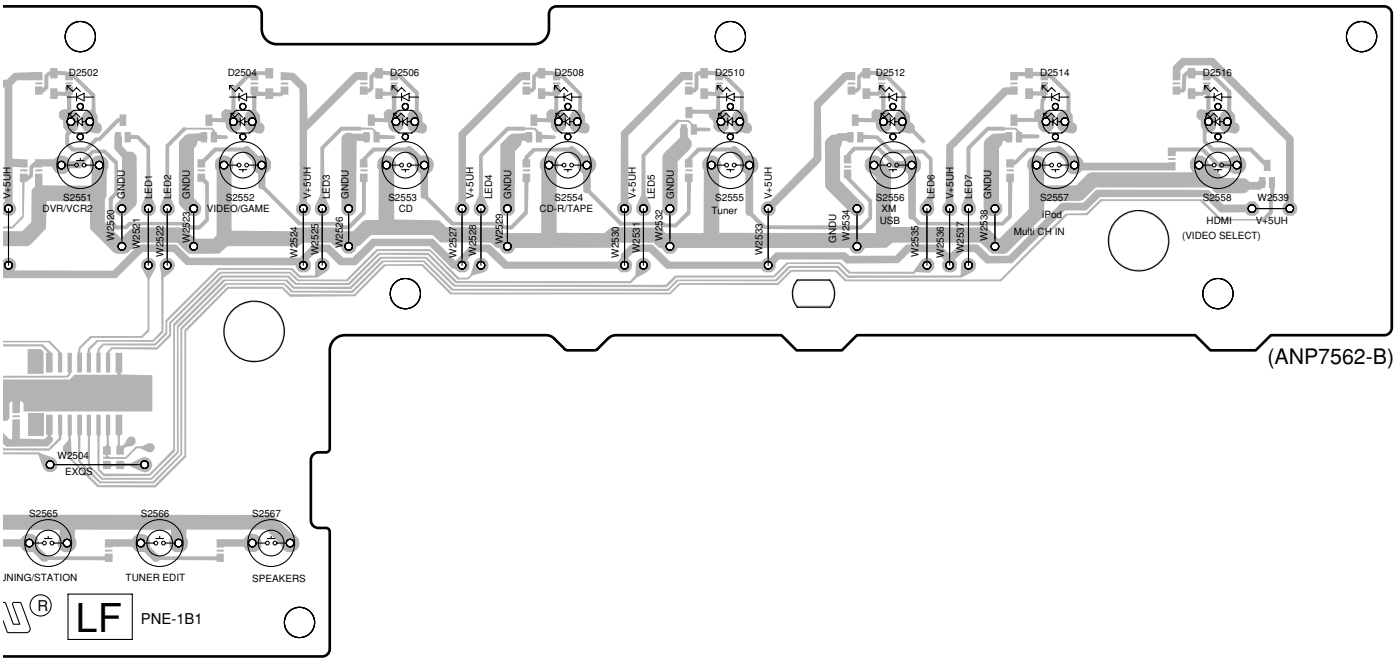
4.12 MULTIJOG ASSY

SIDE A

N MULTI JOG ASSY



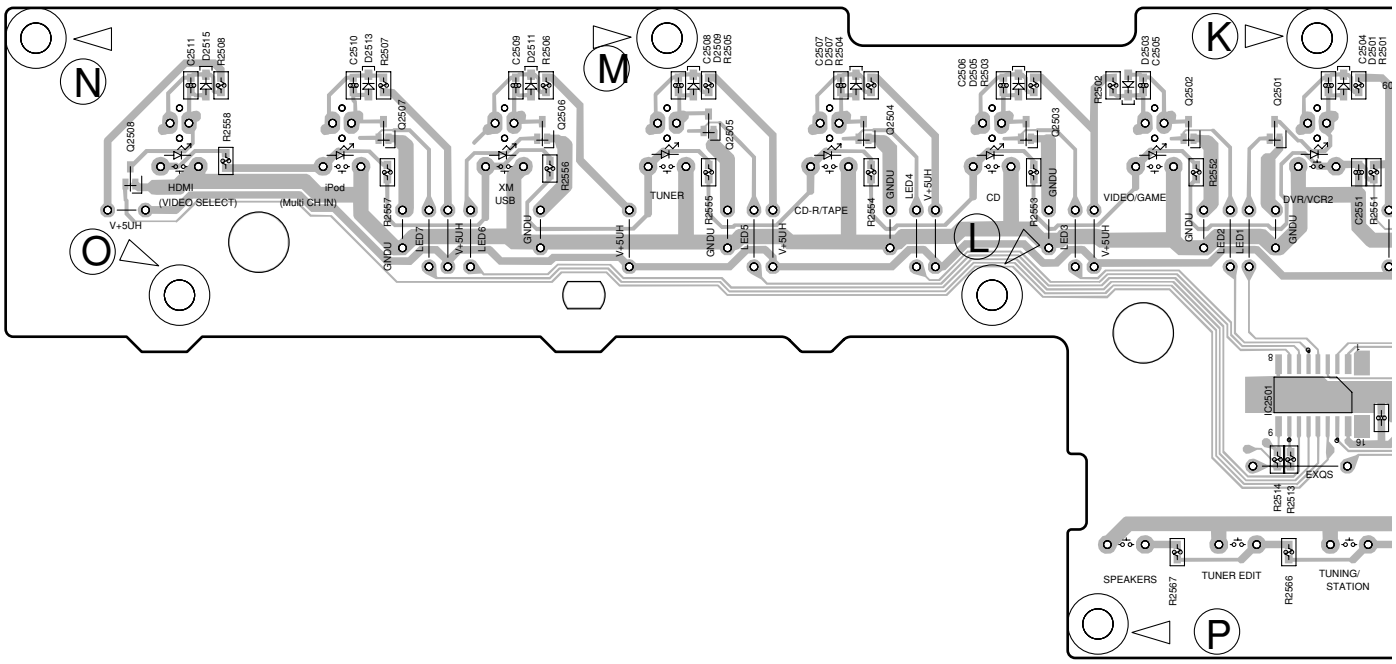
SIDE A

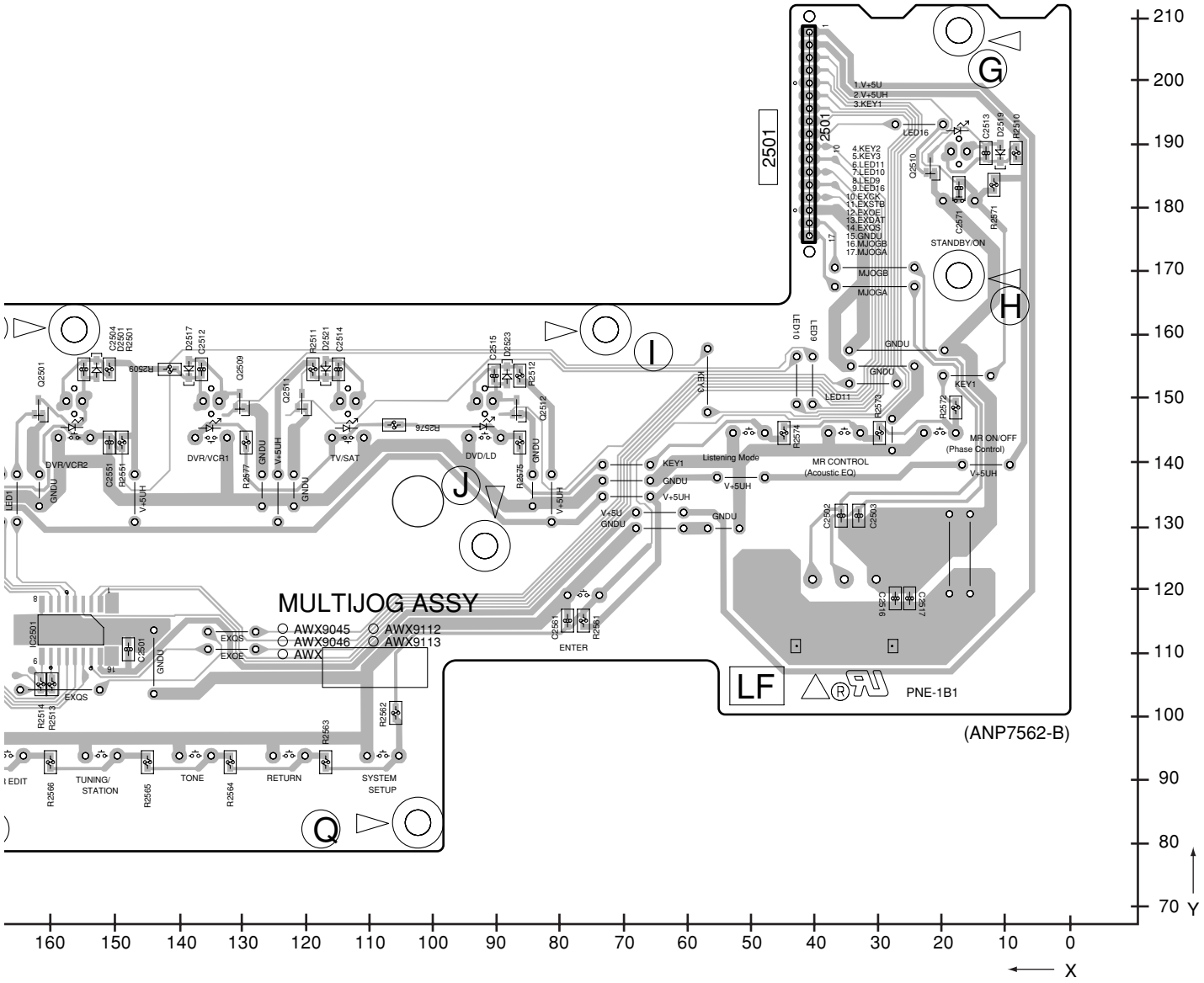


150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330

SIDE B

N MULTI JOG ASSY

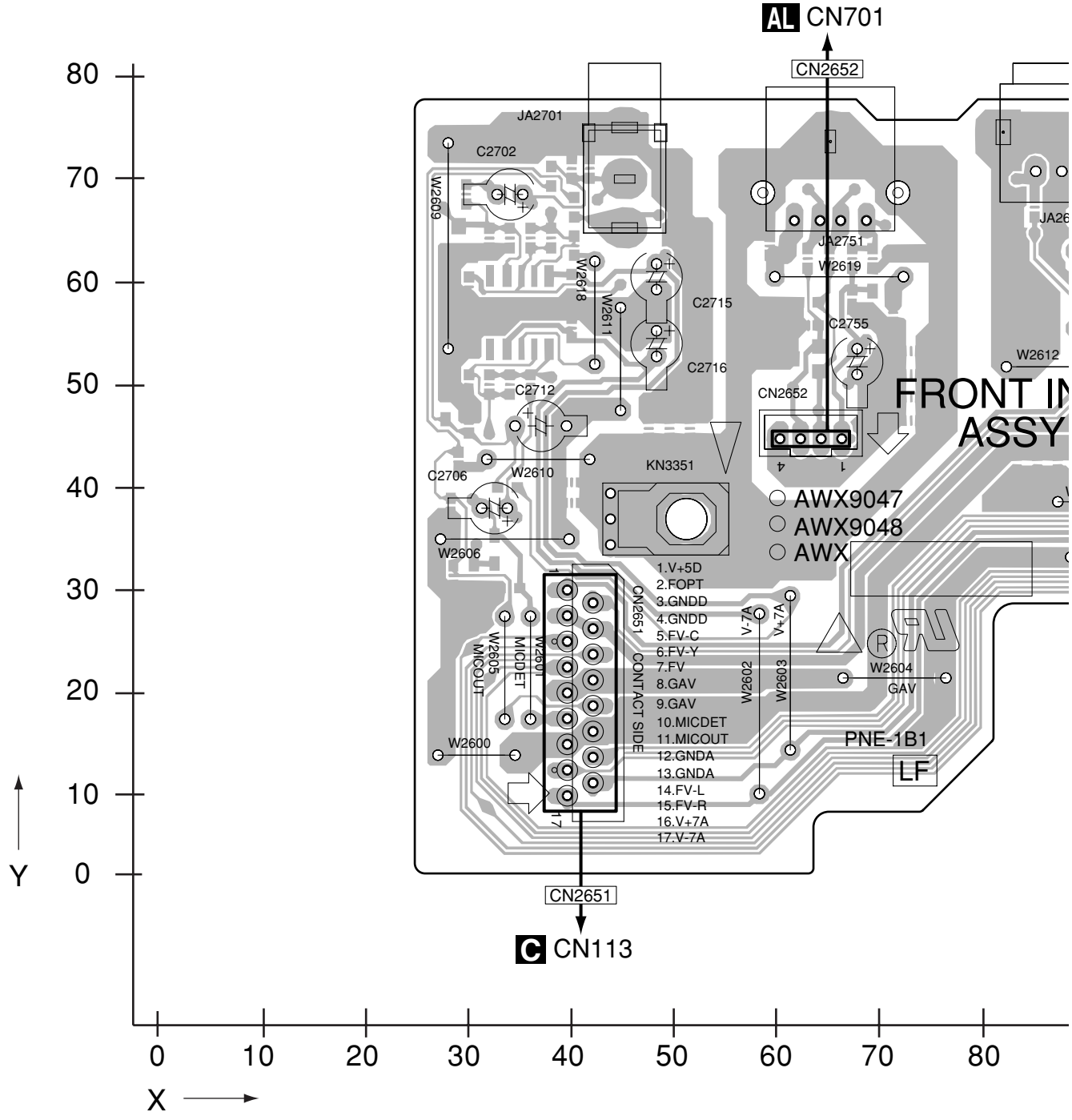



MULTIJOG ASSY
AWX9045
AWX9046
AWX
AWX9112
AWX9113
LF
PNE-1B1
(ANP7562-B)
2501
STANDBY/ON
MJOGB
MJOGA
KEY1
Listening Mode
MR CONTROL
(Acoustic EQ)
MR ON/OFF
(Phase Control)
ENTER
TUNING/
STATION
TONE
RETURN
SYSTEM
SETUP
DVR/VCR2
DVR/VCR1
TV/SAT
DVD/LD
X
Y

4.13 FRONT IN ASSY

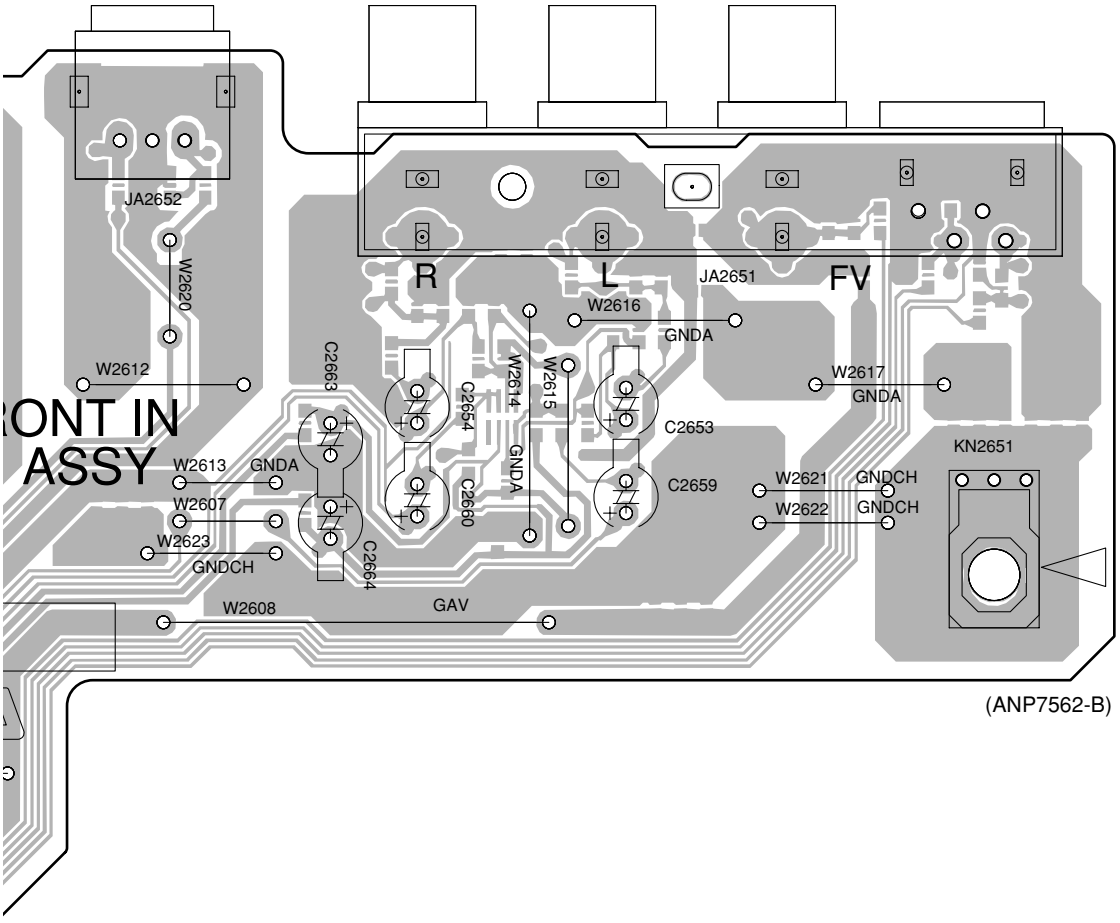
SIDE A

P FRONT-IN ASSY

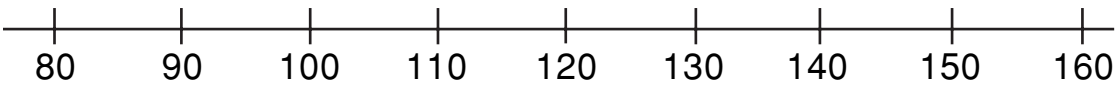


P

SIDE A

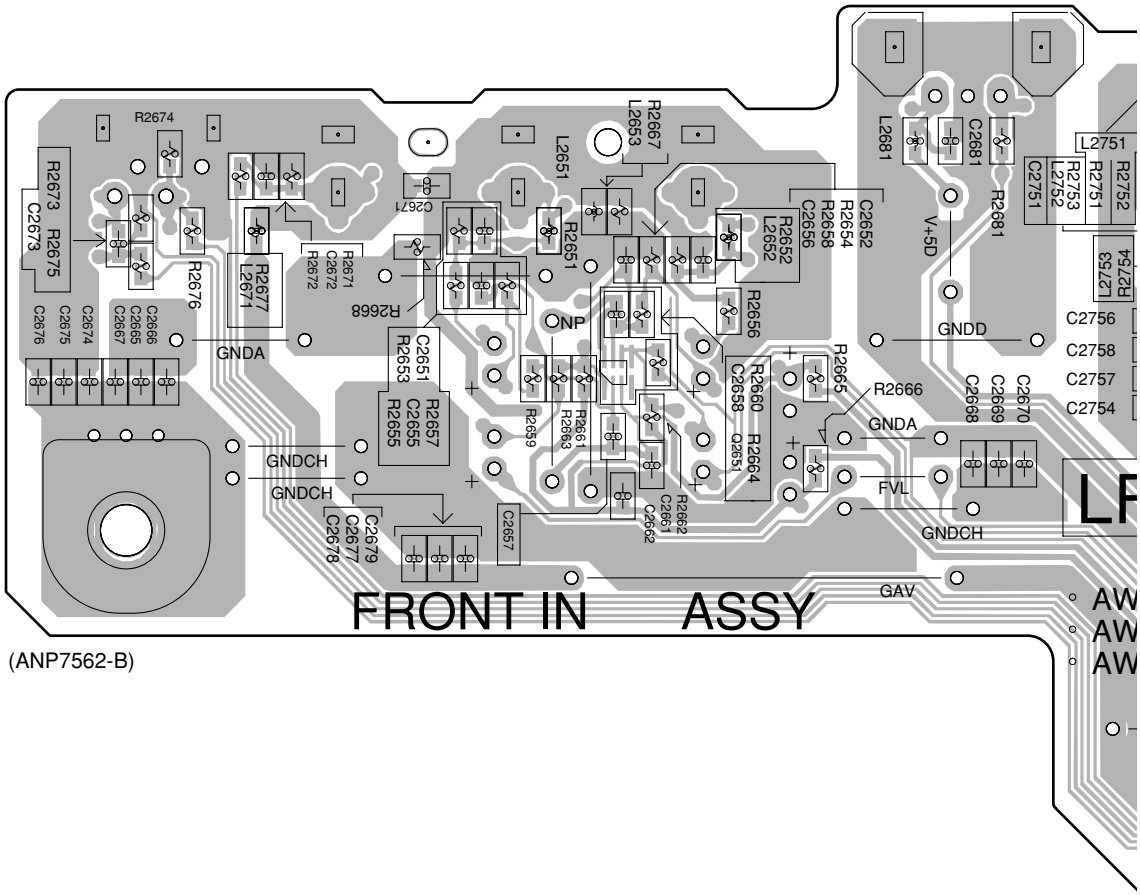


(ANP7562-B)



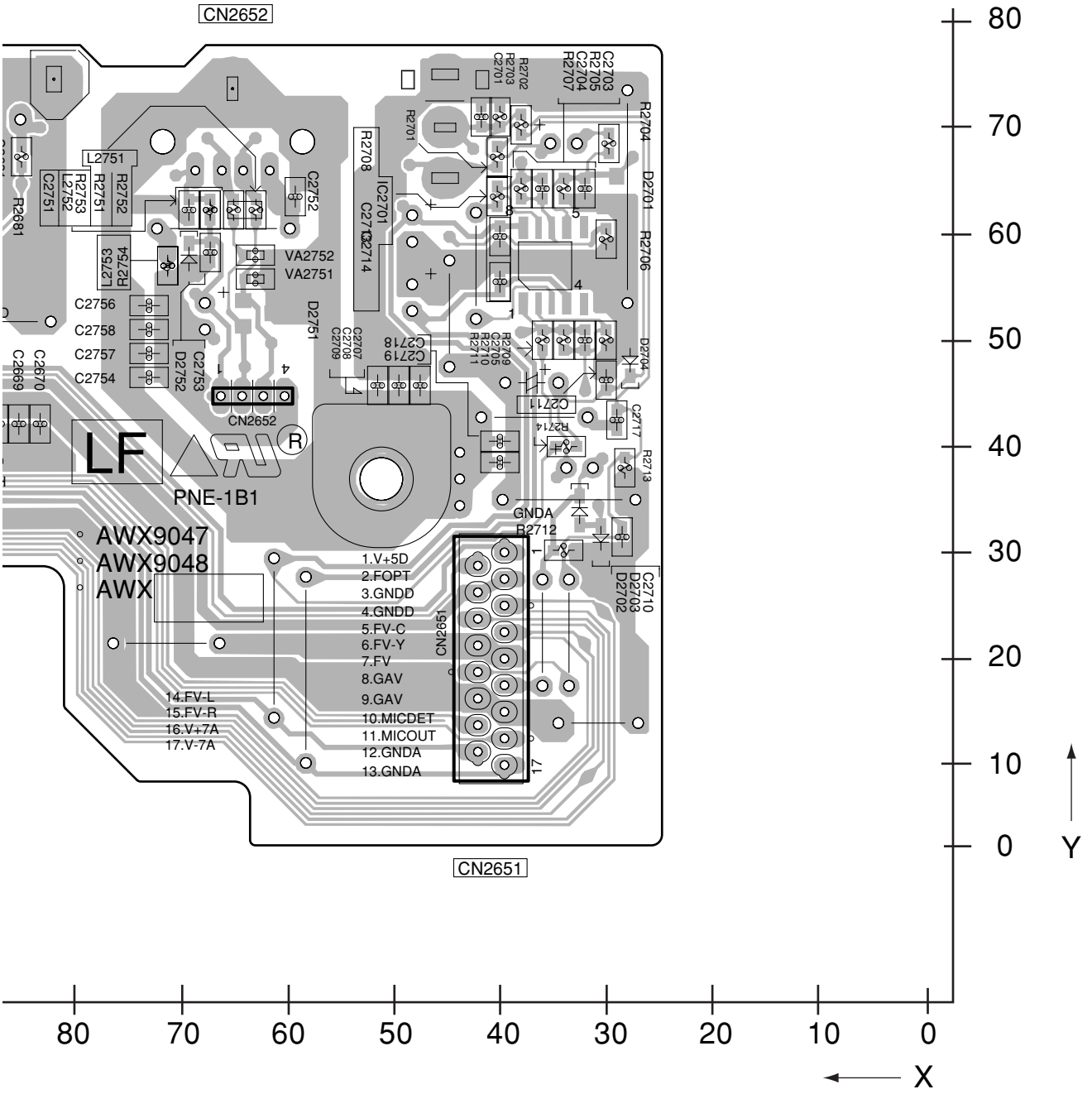
SIDE B

P FRONT-IN ASSY



(ANP7562-B)

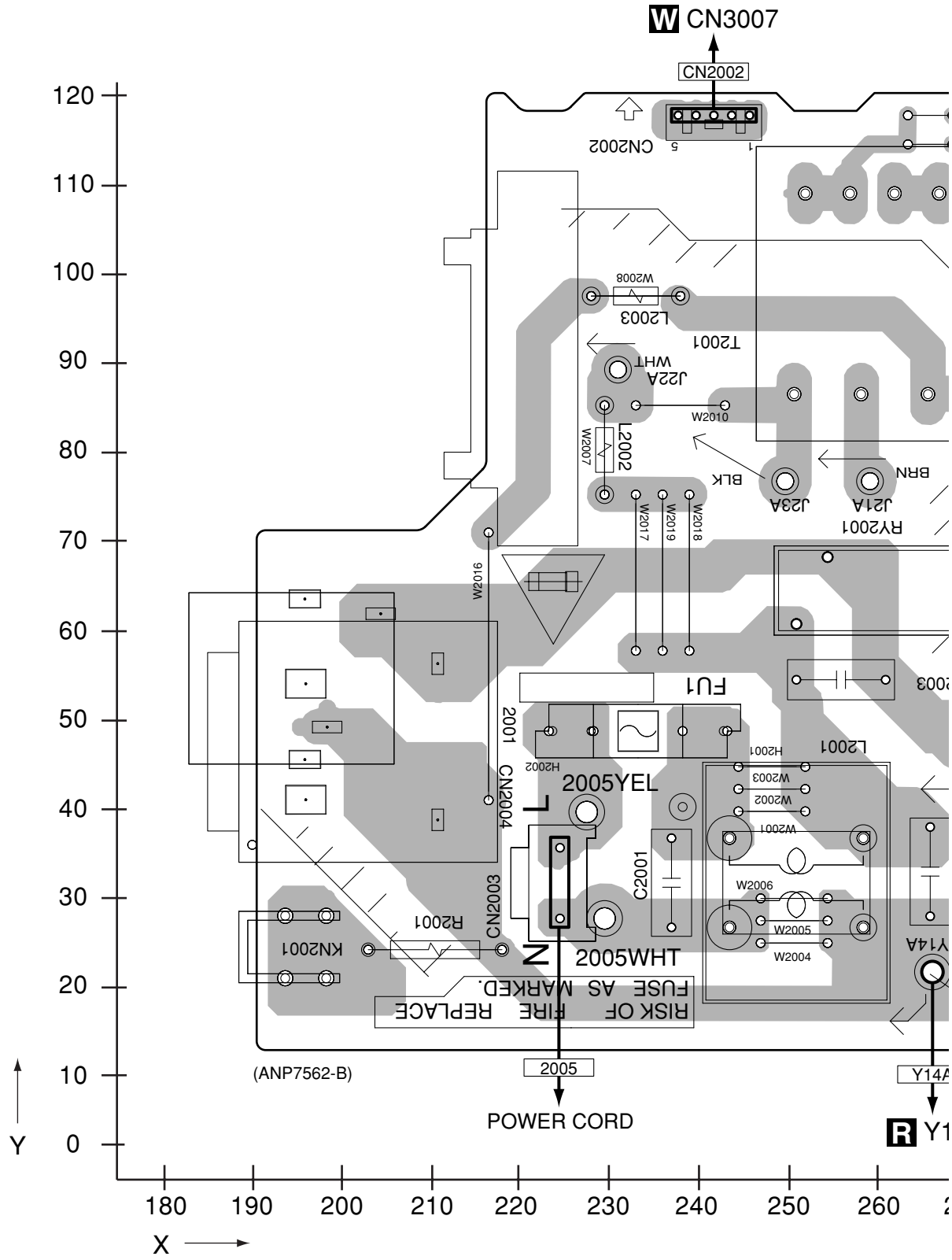
SIDE B


CN2652
LF
PNE-1B1
AWX9047
AWX9048
AWX
CN2652
CN2651
1.V+5D
2.FOPT
3.GNDD
4.GNDD
5.FV-C
6.FV-Y
7.FV
8.GAV
9.GAV
10.MICDET
11.MICOUT
12.GNDA
13.GNDA
14.FV-L
15.FV-R
16.V+7A
17.V-7A
GNDA
R2712
VA2752
VA2751
L2751
IC2701
D2751
D2752
D2701
D2704
D2702
C2756
C2758
C2757
C2754
80 70 60 50 40 30 20 10 0
Y
80 70 60 50 40 30 20 10 0
X

4.14 PRIMARY ASSY

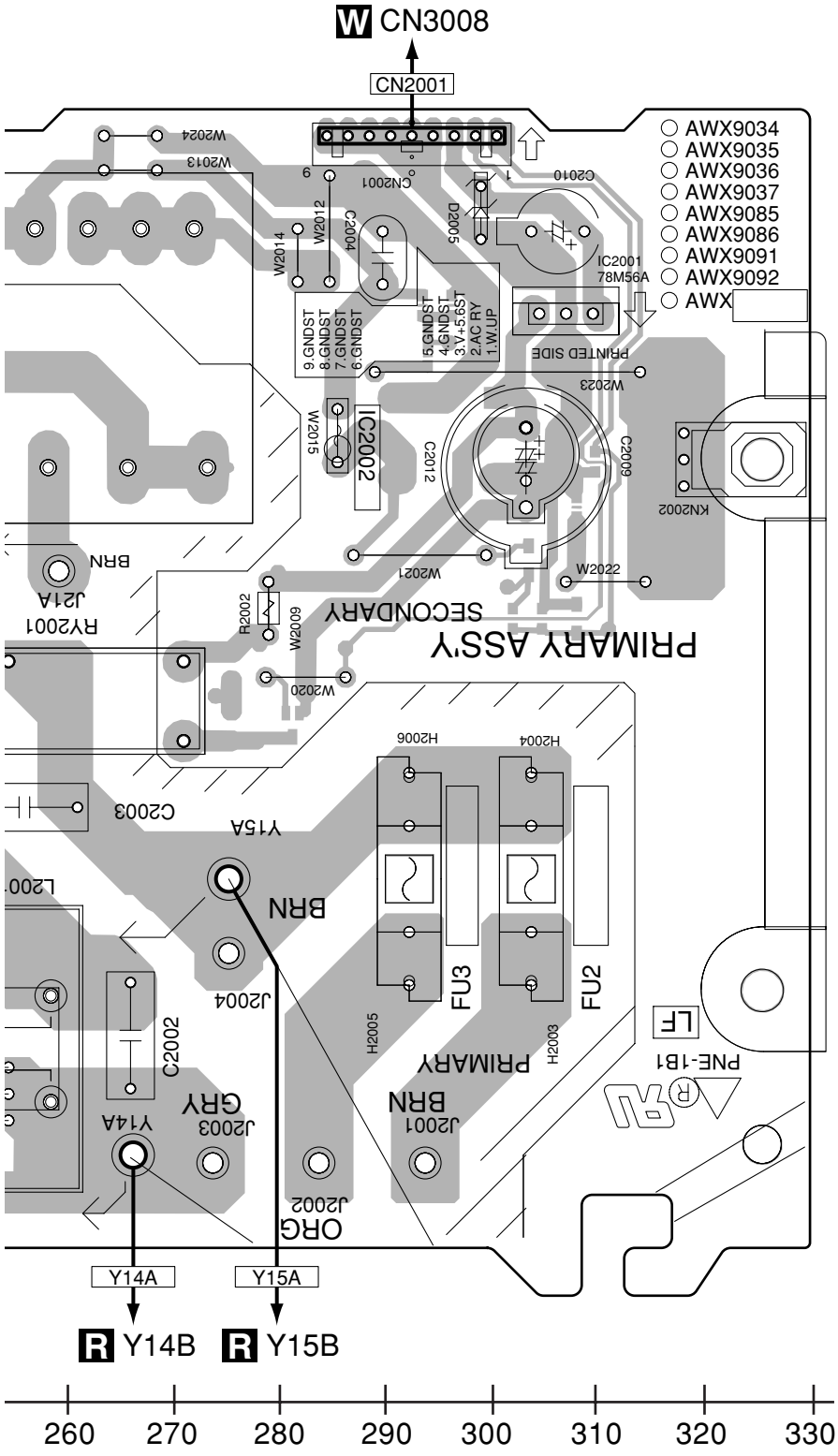
SIDE A

Q PRIMARY ASSY



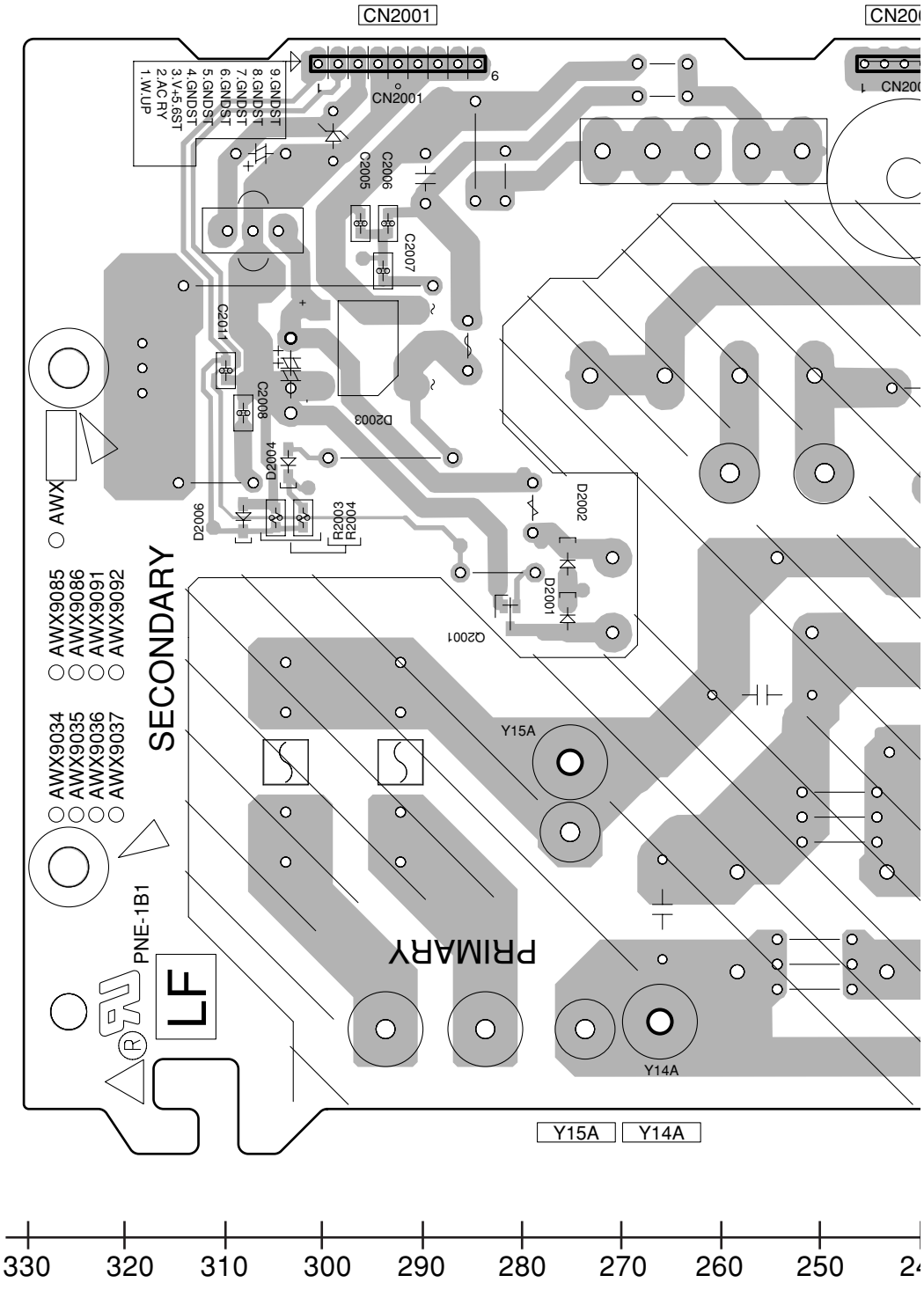
Q

SIDE A

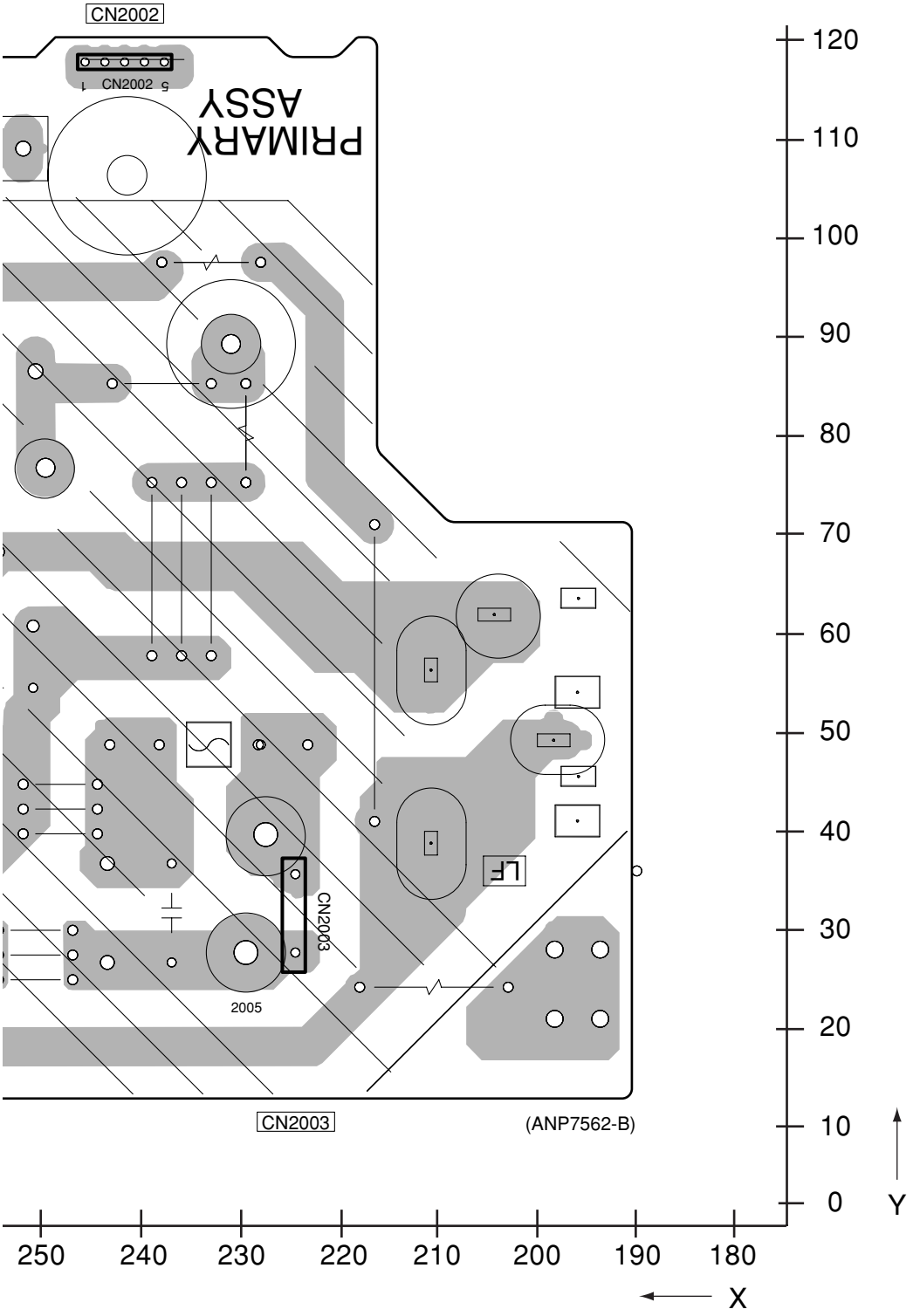

W CN3008
CN2001
AWX9034
AWX9035
AWX9036
AWX9037
AWX9085
AWX9086
AWX9091
AWX9092
AWX
IC2001
78M56A
PRINTED SIDE
IC2002
PRIMARY ASS'Y
SECONDARY
PRIMARY
SECONDARY
FU3
FU2
BRN
GRY
ORG
LF
PNE-1B1
Y14A
Y15A
R Y14B
R Y15B
260 270 280 290 300 310 320 330

SIDE B

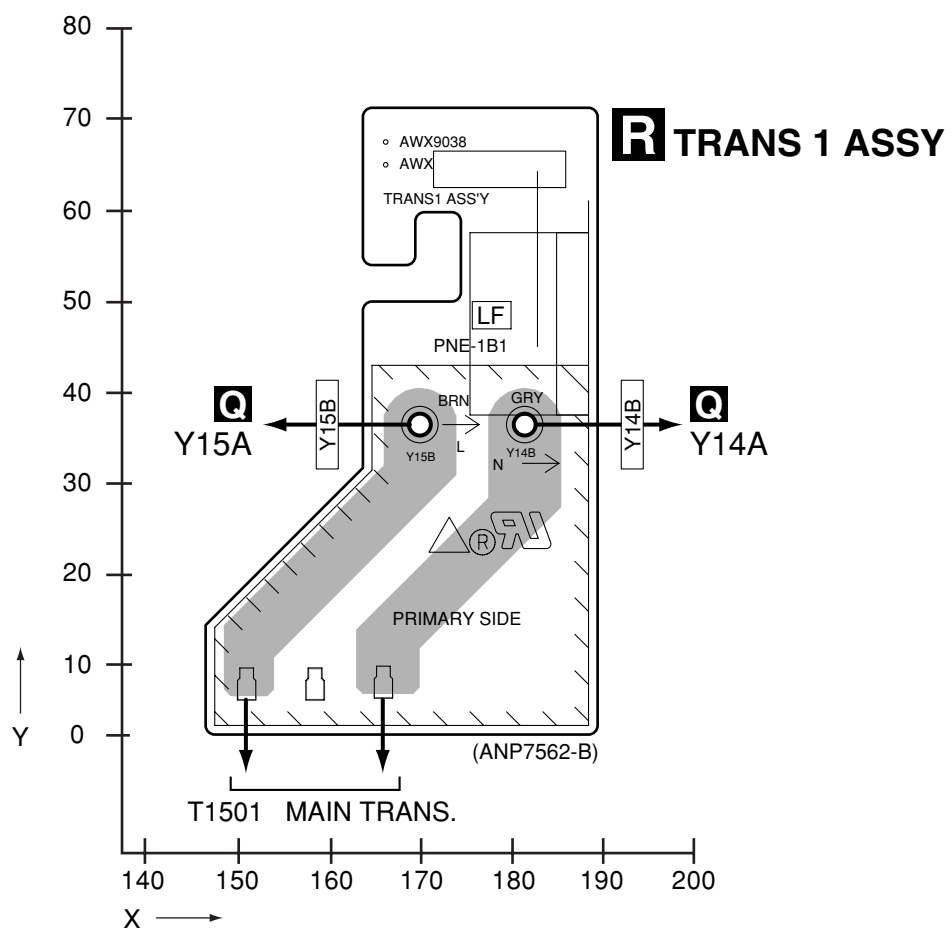
Q PRIMARY ASSY

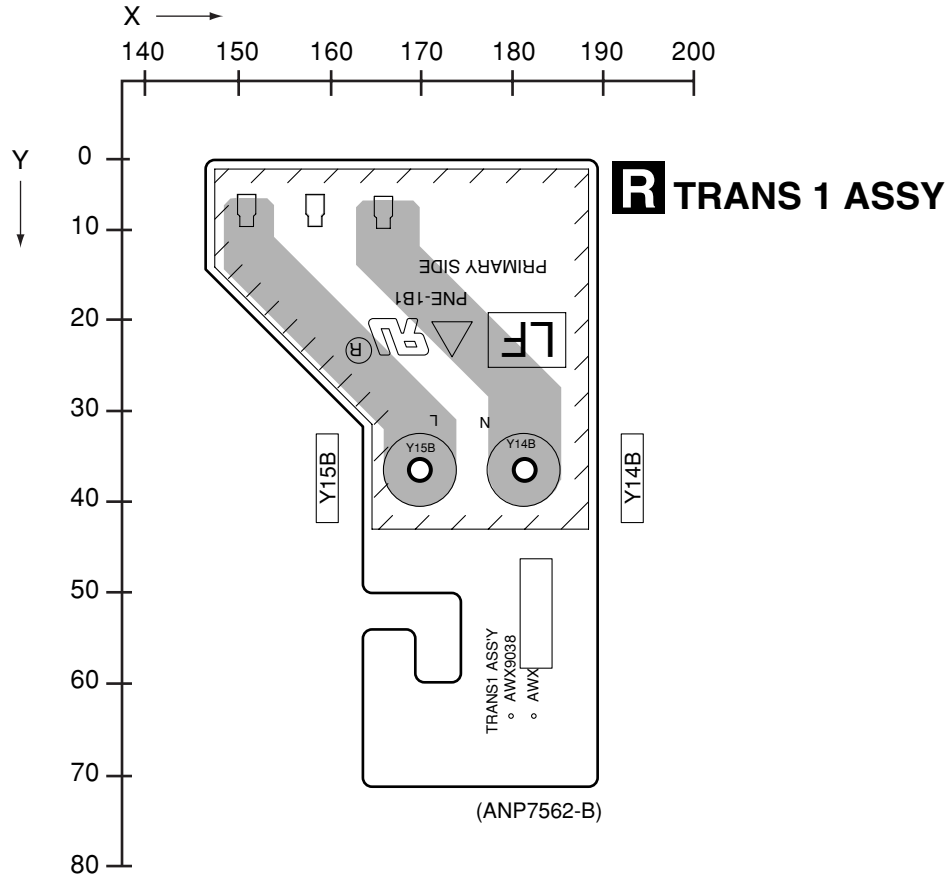


SIDE B

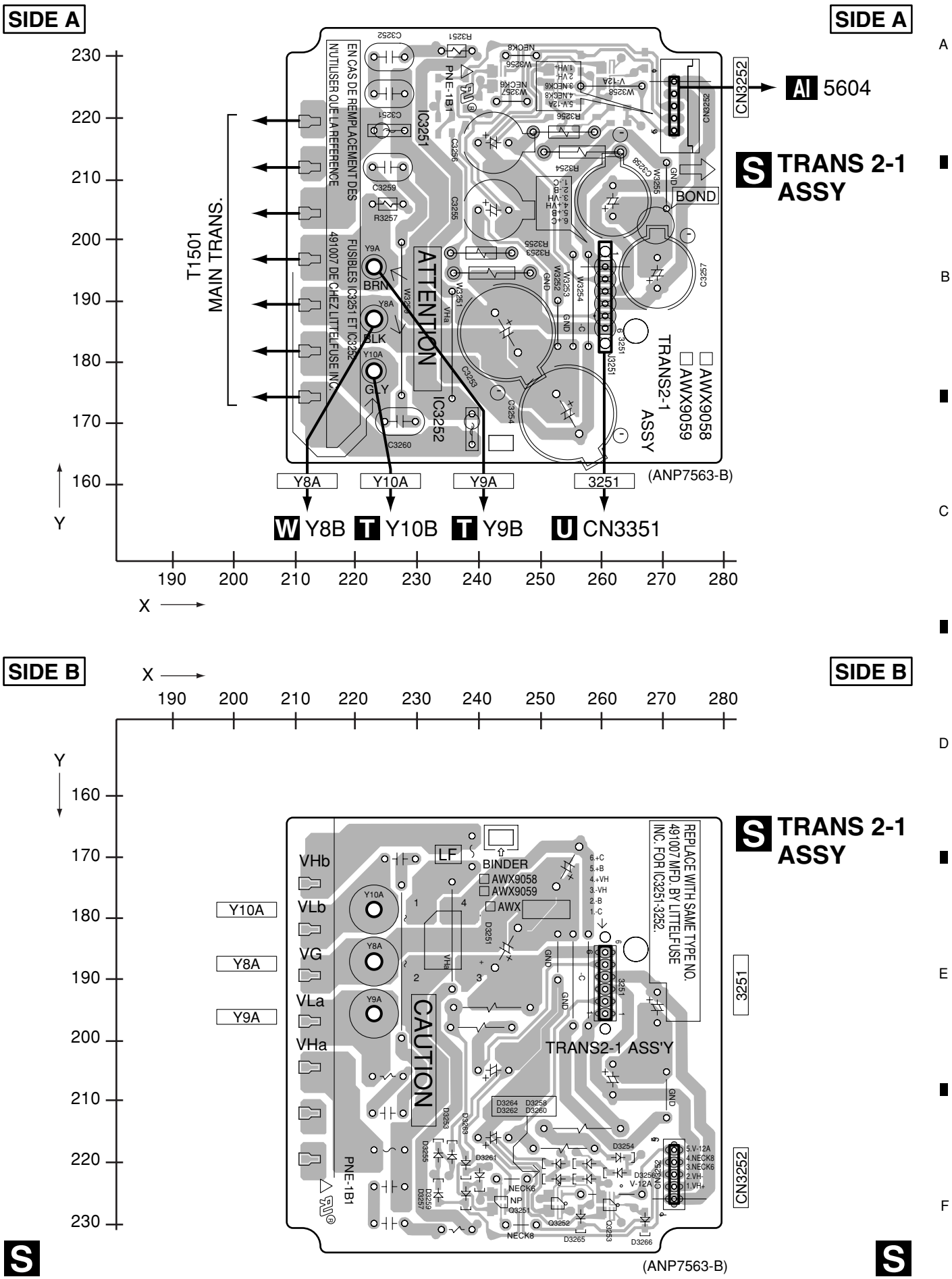

CN2002
CN2002 5 1
PRIMARY ASSY
CN2003
2005
LF
CN2003
(ANP7562-B)
120
110
100
90
80
70
60
50
40
30
20
10
0
Y
250
240
230
220
210
200
190
180
X

4.15 TRANS 1 ASSYS

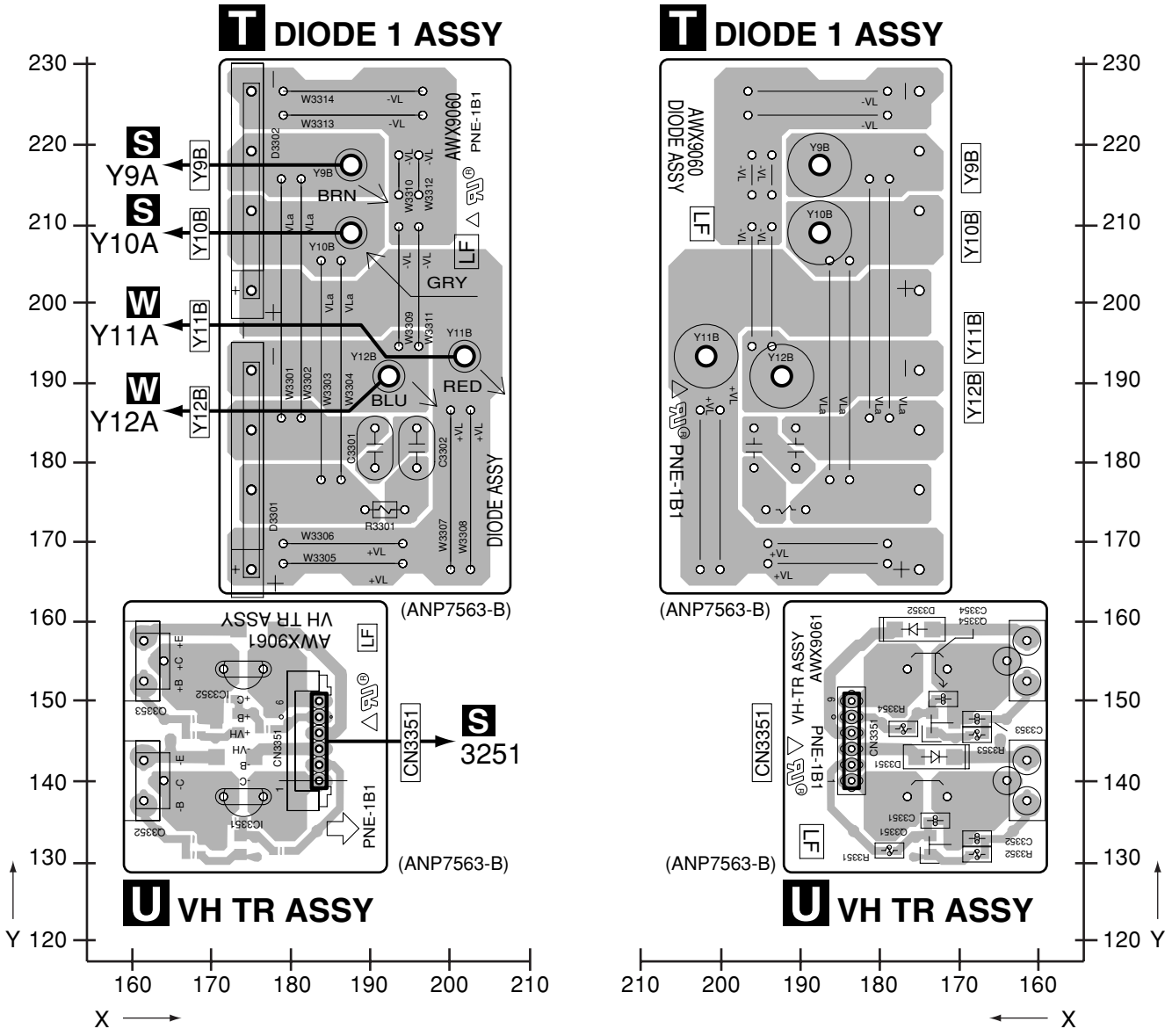




4.16 TRANS 2-1 ASSY

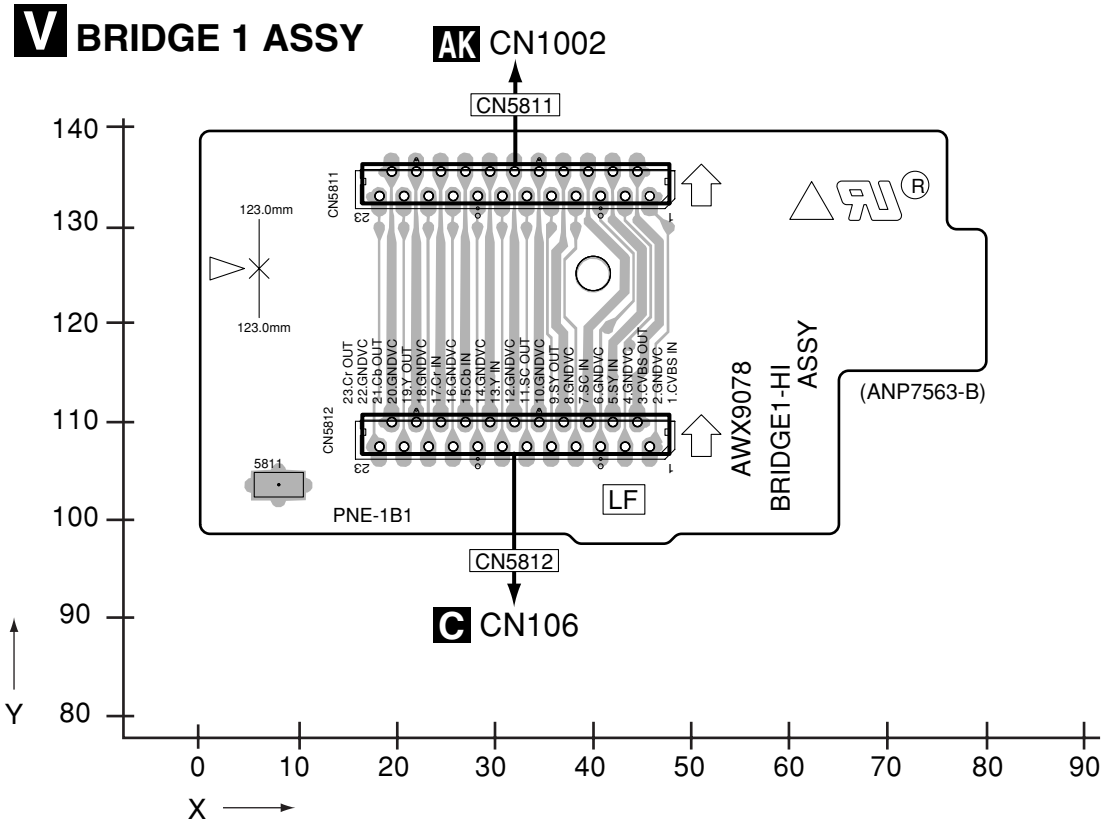


4.17 DIODE 1 and VH TR ASSYS

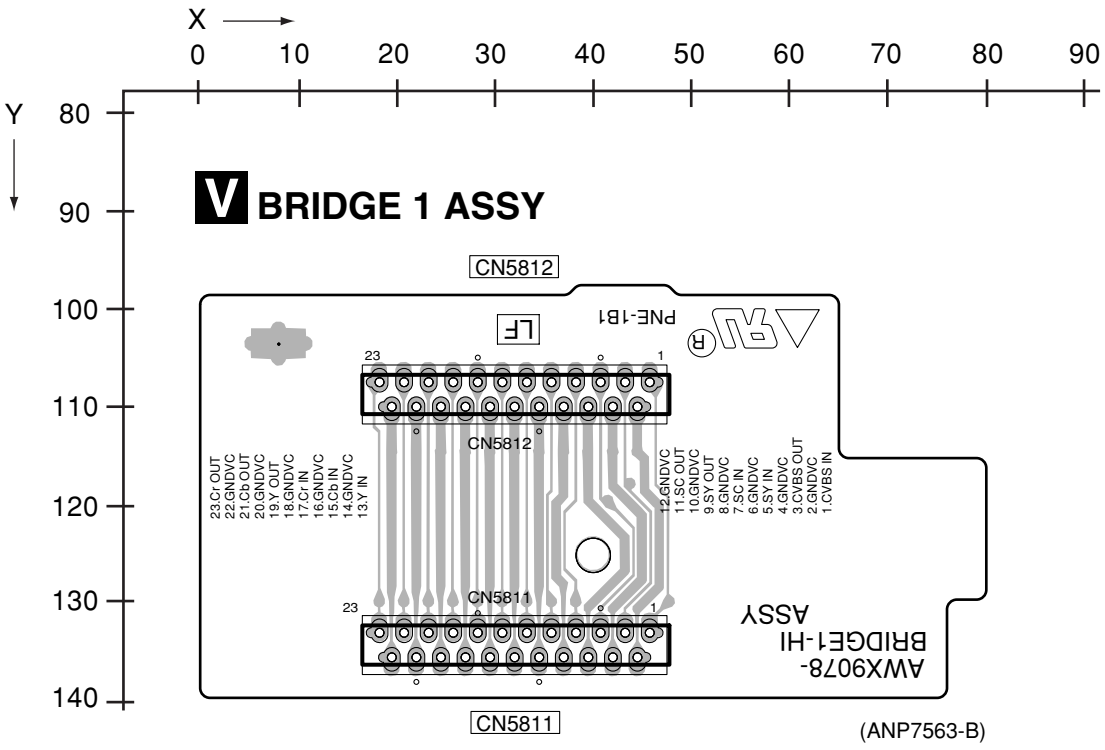


4.18 BRIDGE 1 ASSY

SIDE A

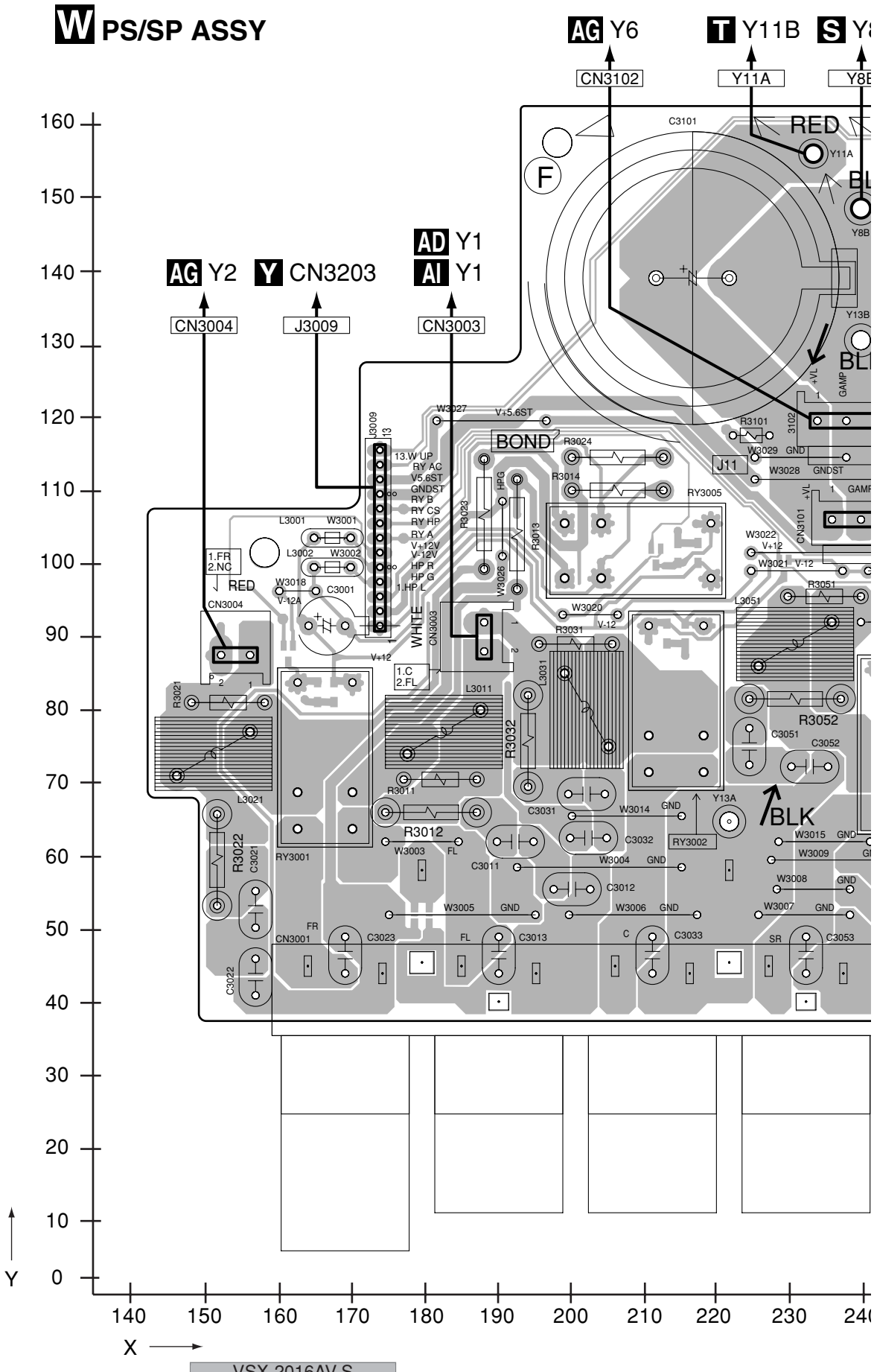


SIDE B

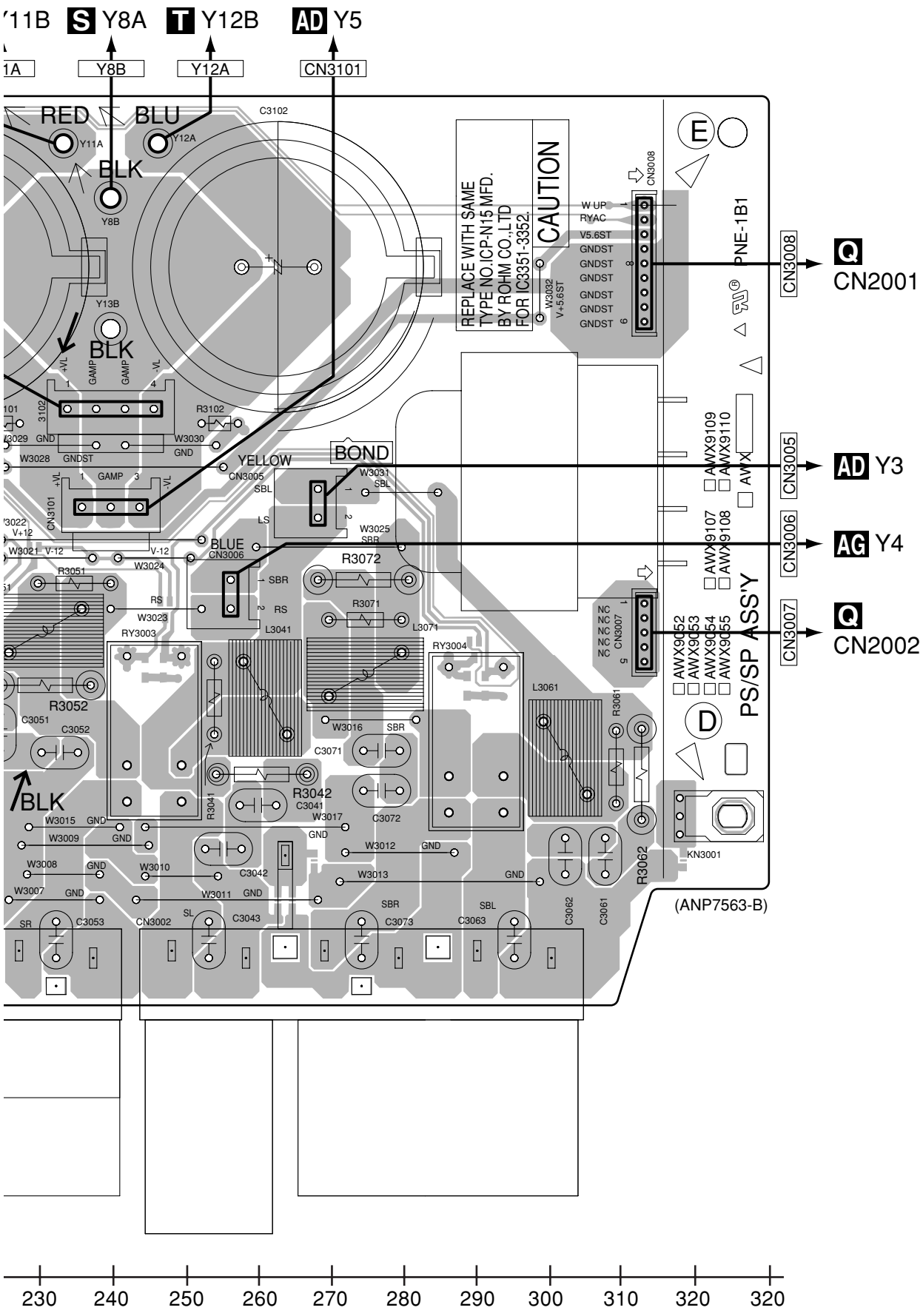


4.19 PS/SP ASSY

SIDE A

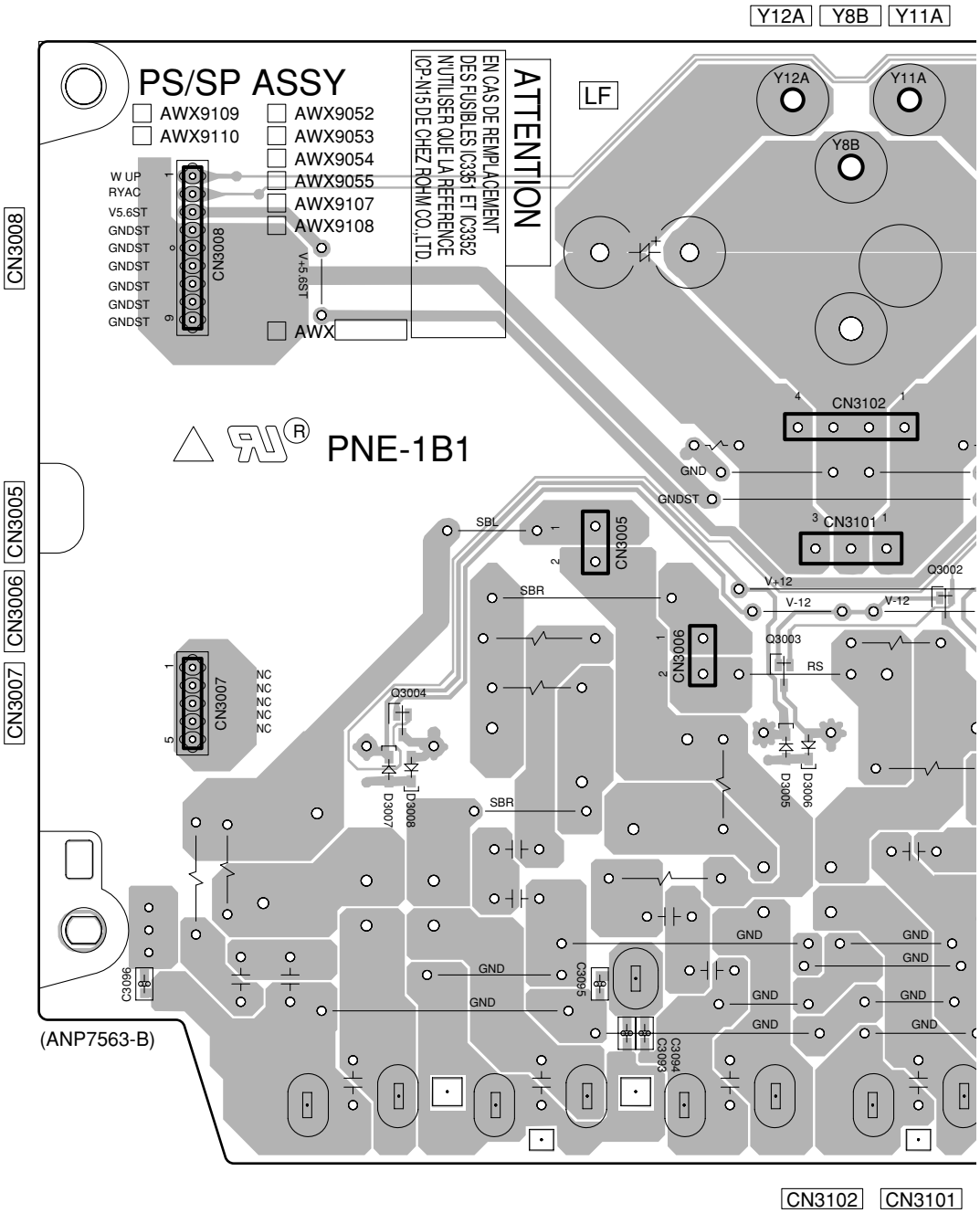


SIDE A


11B
S Y8A
T Y12B
AD Y5
1A
Y8B
Y12A
CN3101
RED
BLU
BLK
BLK
Y11A
Y12A
Y8B
Y13B
C3102
REPLACE WITH SAME TYPE NO.ICP-N15 MFD. BY ROHM CO.,LTD FOR IC3351-3352.
CAUTION
W3032
V+5.6ST
CN3008
W UP
RYAC
V5.6ST
GNDST
PNE-1B1
CN3008
Q
CN2001
R3102
W3030
W3028
GNDST
YELLOW
BOND
CN3005
SBL
W3031
AWX9109
AWX9110
CN3005
AD Y3
CN3101
W3025
SBR
BLUE
CN3006
W3024
R3072
AWX9107
AWX9108
CN3006
AG Y4
R3051
W3023
R3071
L3041
L3071
RY3003
RY3004
NC
CN3007
AWX9052
AWX9053
AWX9054
AWX9055
CN3007
Q
CN2002
PS/SP ASS'Y
L3061
R3061
R3052
C3051
C3052
W3016
C3071
R3042
C3041
W3017
C3072
R3041
W3015
W3009
W3008
W3007
W3010
W3011
W3012
W3013
C3042
C3043
C3053
CN3002
C3073
C3063
C3062
C3061
R3062
KN3001
(ANP7563-B)
230 240 250 260 270 280 290 300 310 320 320

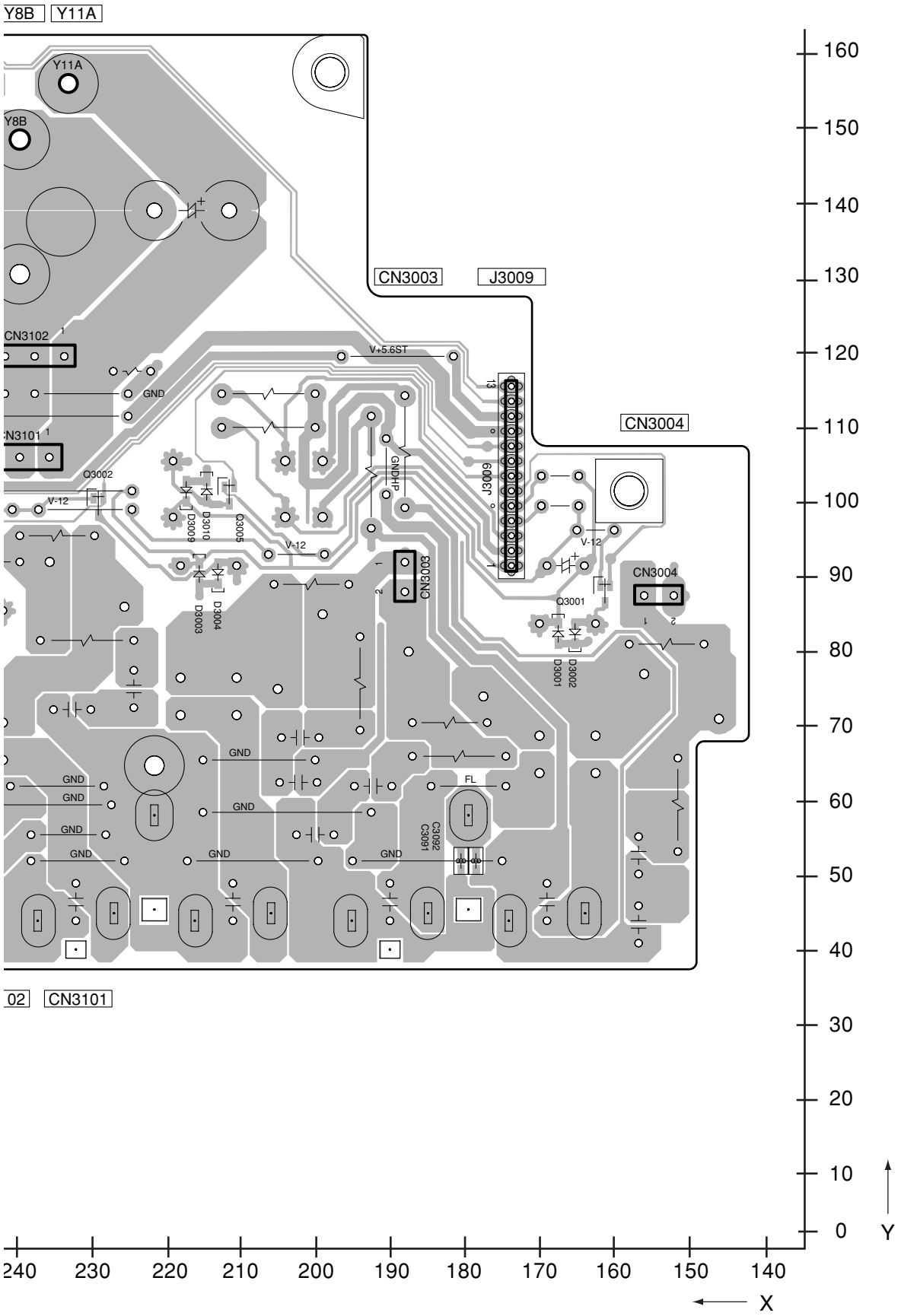
SIDE B

W PS/SP ASSY



310 300 290 310 300 290 280 270 260 250 240 230

SIDE B

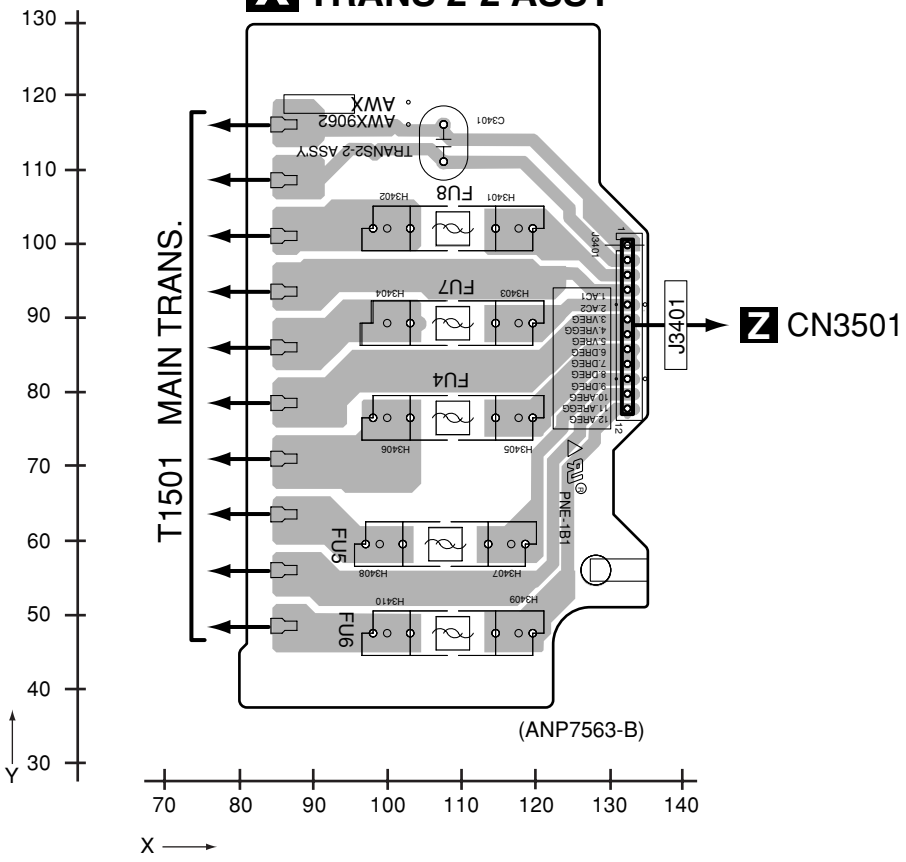

Y8B
Y11A
CN3003
J3009
CN3102
CN3101
CN3004
V+5.6ST
GND
V-12
GNDHP
FL
Q3002
Q3005
Q3001
D3010
D3009
D3004
D3003
D3002
D3001
C3092
C3091
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
Y
240
230
220
210
200
190
180
170
160
150
140
X

4.20 TRANS 2-2 ASSY

SIDE A

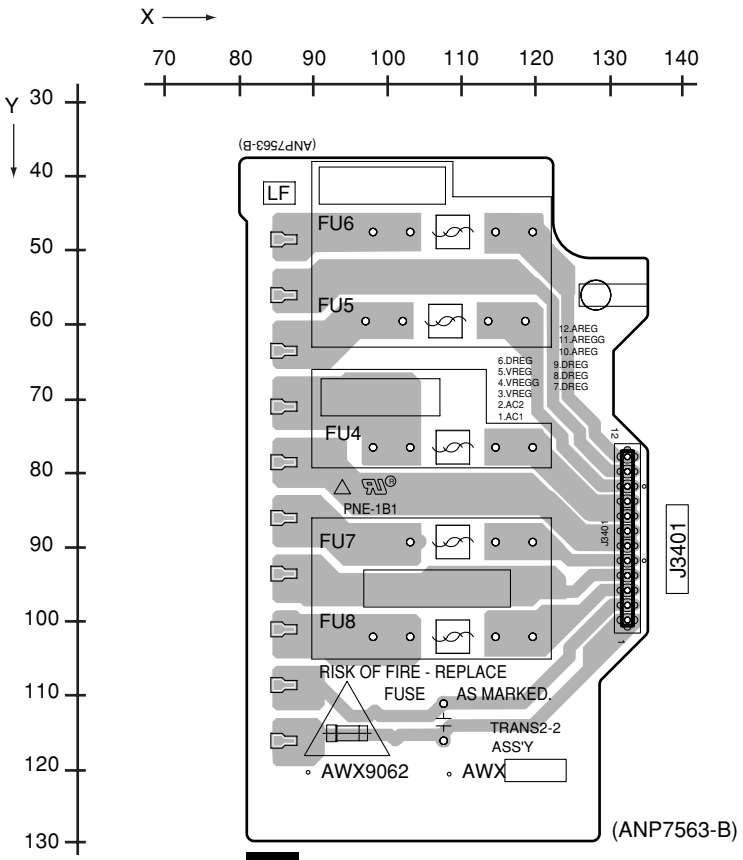
SIDE A

X TRANS 2-2 ASSY



SIDE B

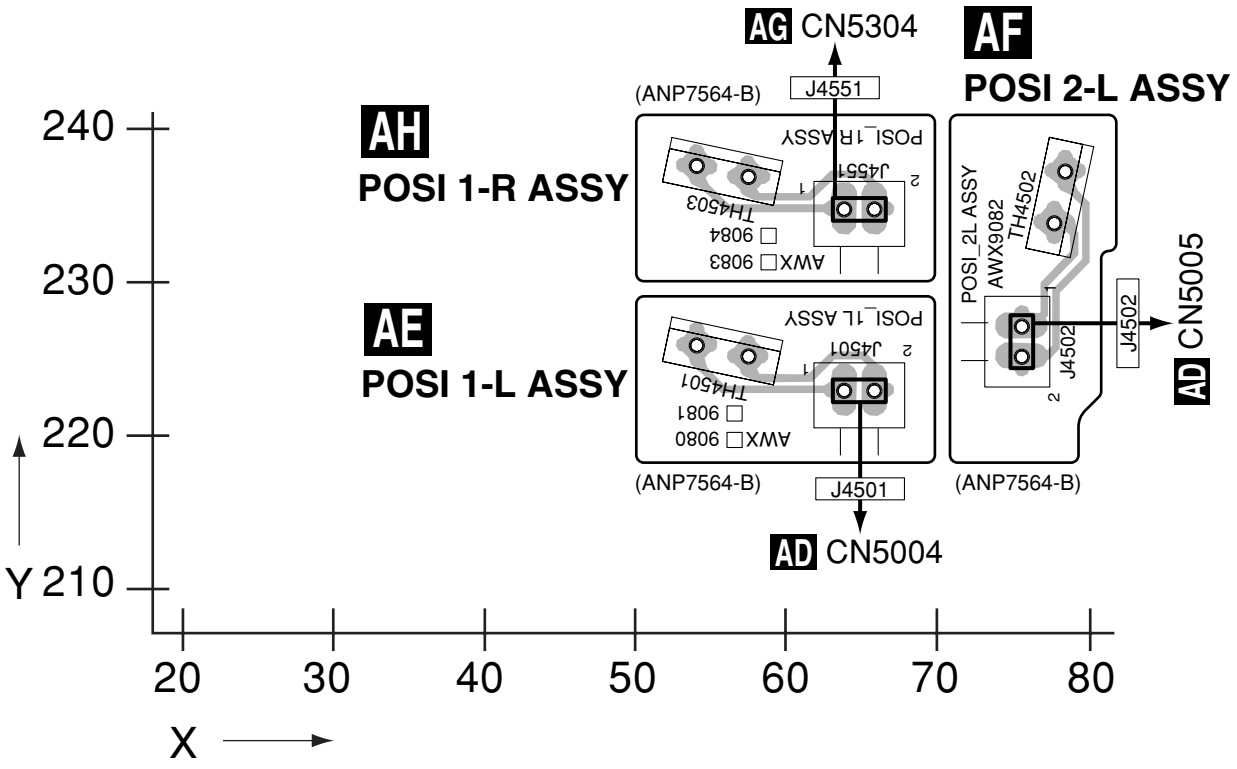
SIDE B



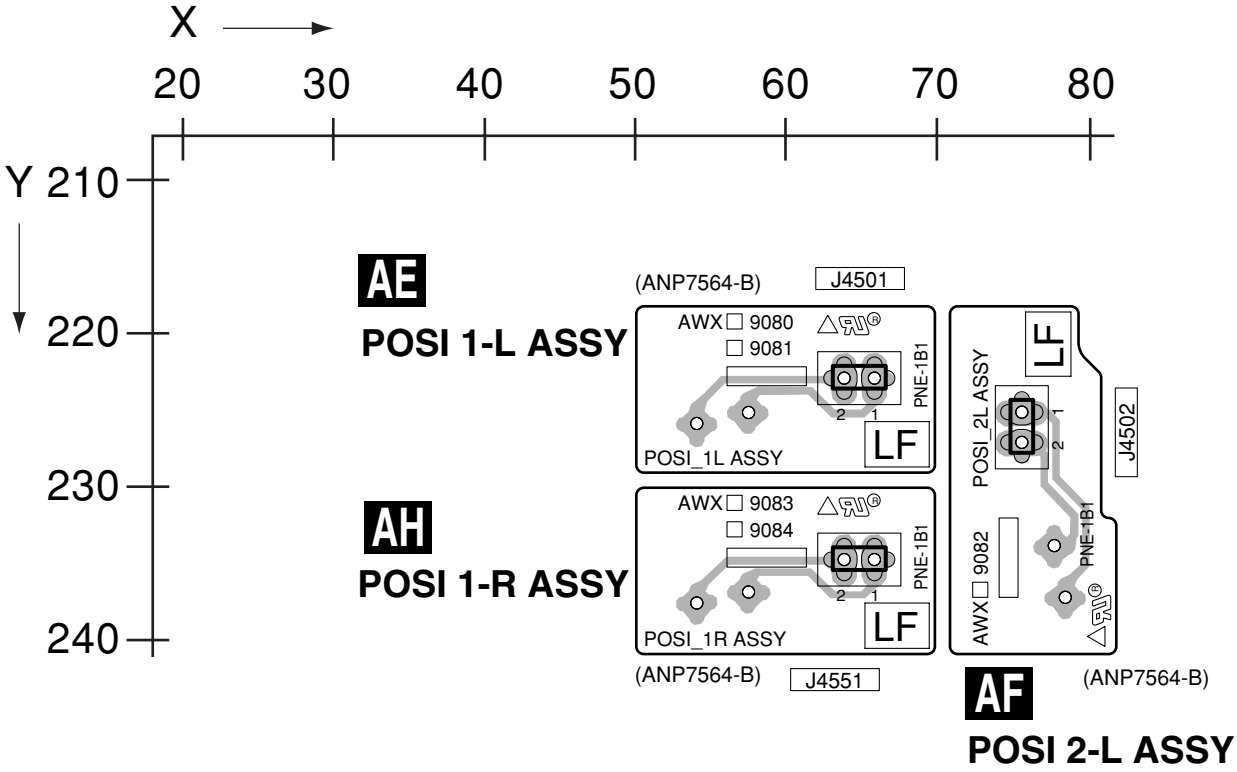
X TRANS 2-2 ASSY

4.21 POSI 1-L, POSI 2-L and POSI 1-R ASSYS

SIDE A **SIDE A**



SIDE B **SIDE B**

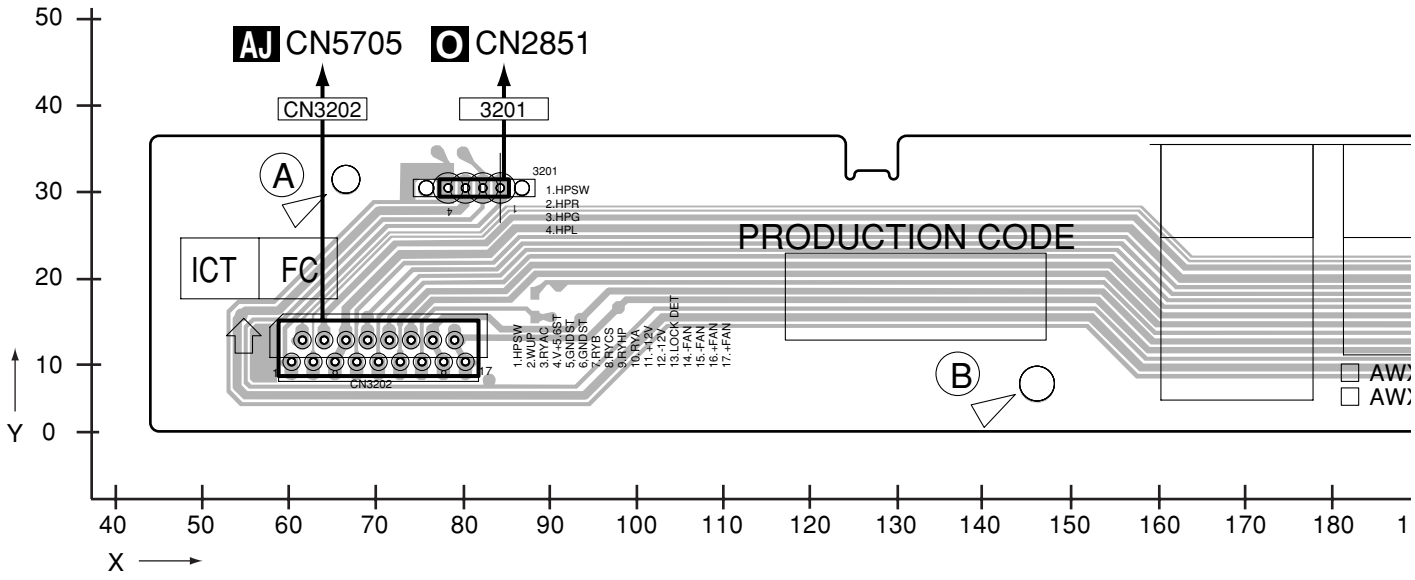


AE AF AH **AE AF AH**

4.22 TRANS SIDE ASSY

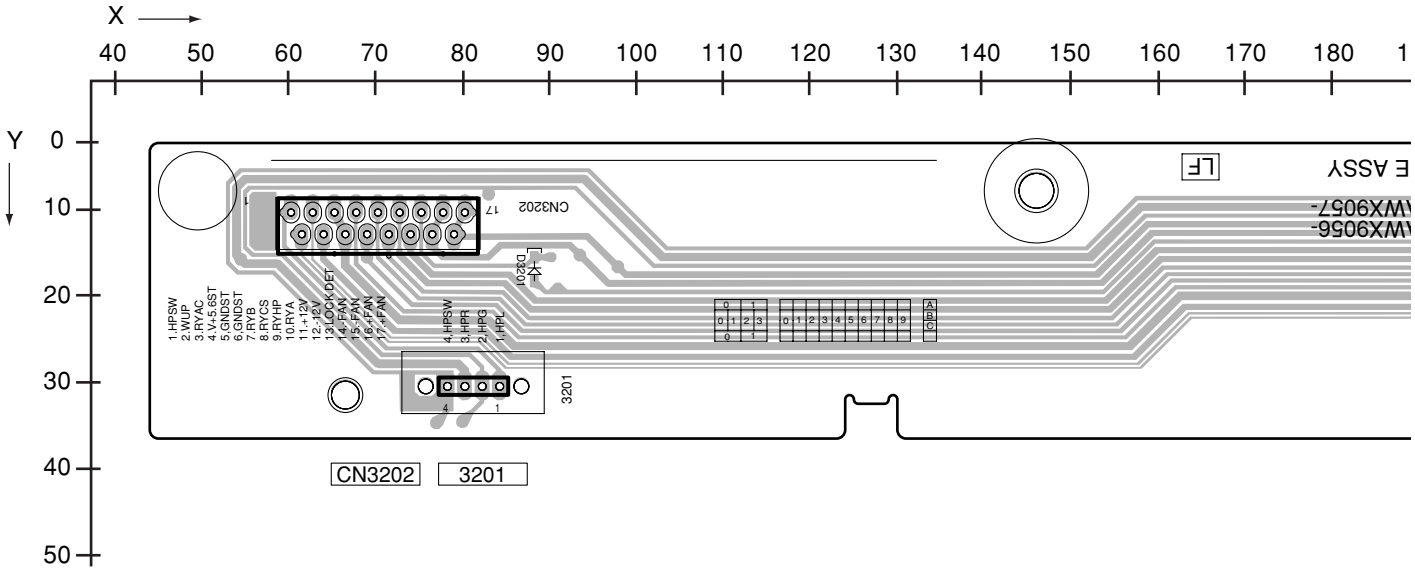
SIDE A

Y TRANS SIDE ASSY



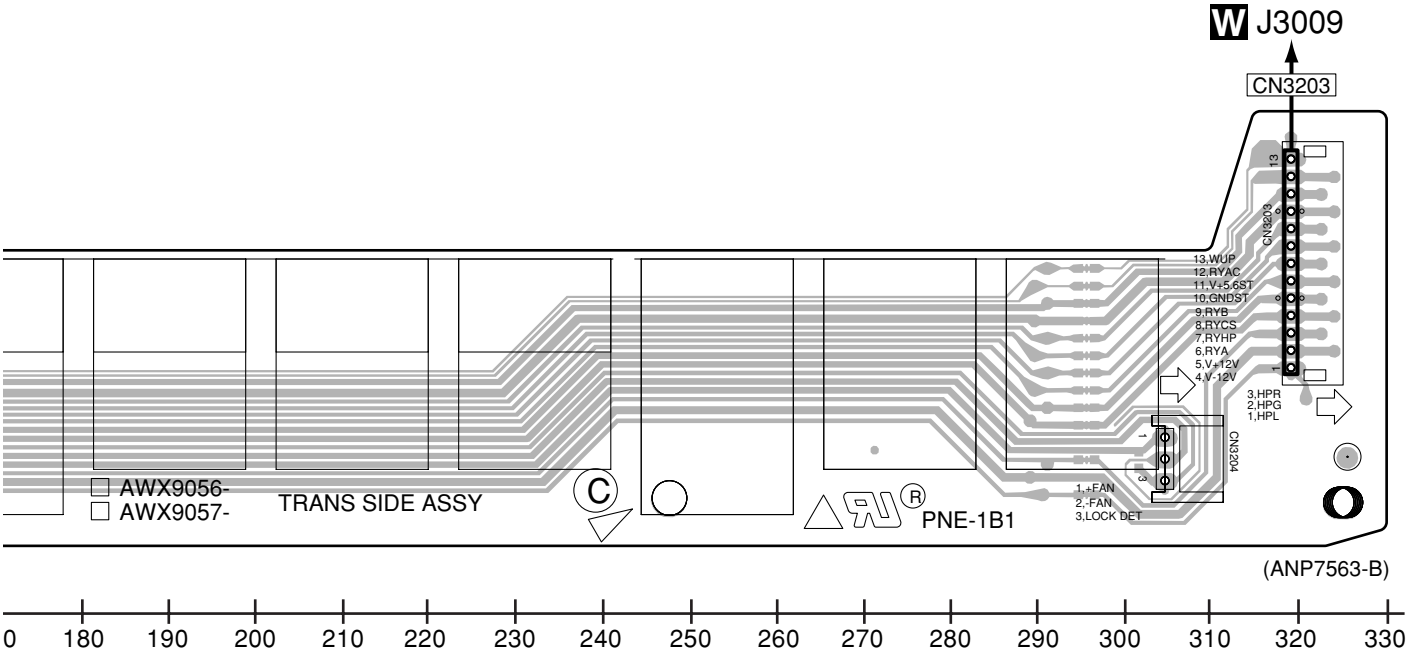
SIDE B

Y TRANS SIDE ASSY

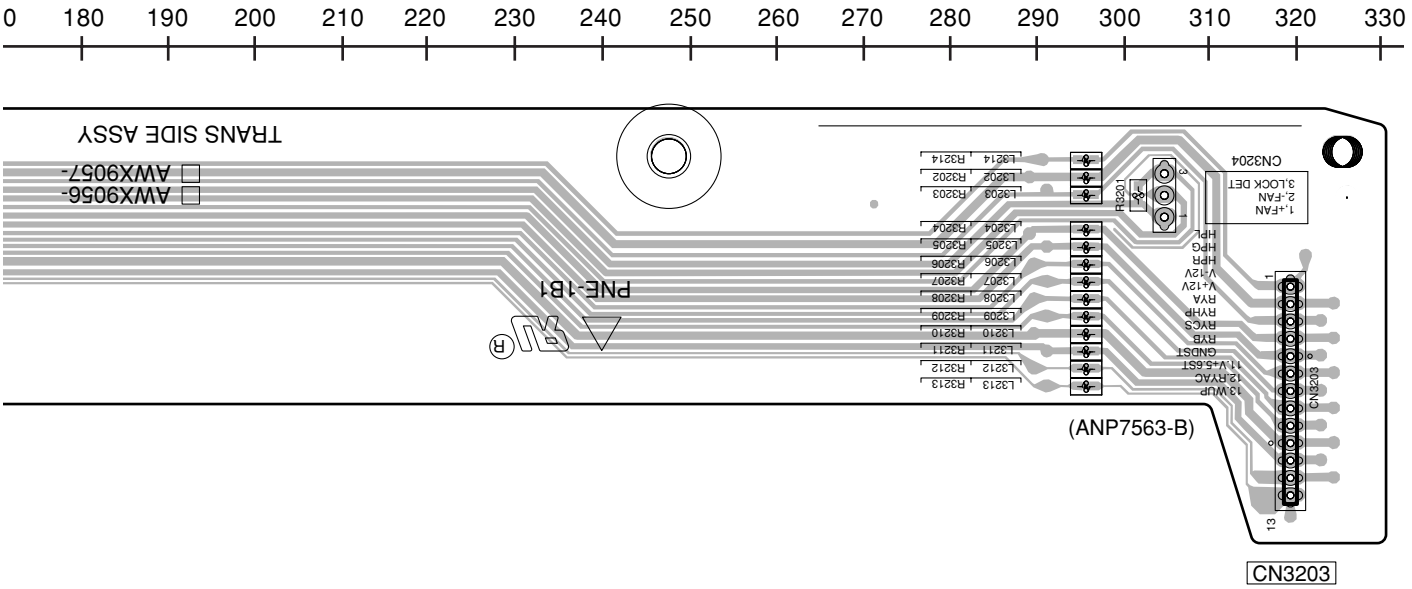


Y

SIDE A


W J3009
CN3203
13.WUP
12.RYAC
11.V+5.6ST
10.GNDST
9.RYB
8.RYCS
7.RYHP
6.RYA
5.V+12V
4.V-12V
3.HPR
2.HPG
1.HPL
CN3204
1.+FAN
2.-FAN
3.LOCK DET
AWX9056-
AWX9057-
TRANS SIDE ASSY
PNE-1B1
(ANP7563-B)
0 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330

SIDE B

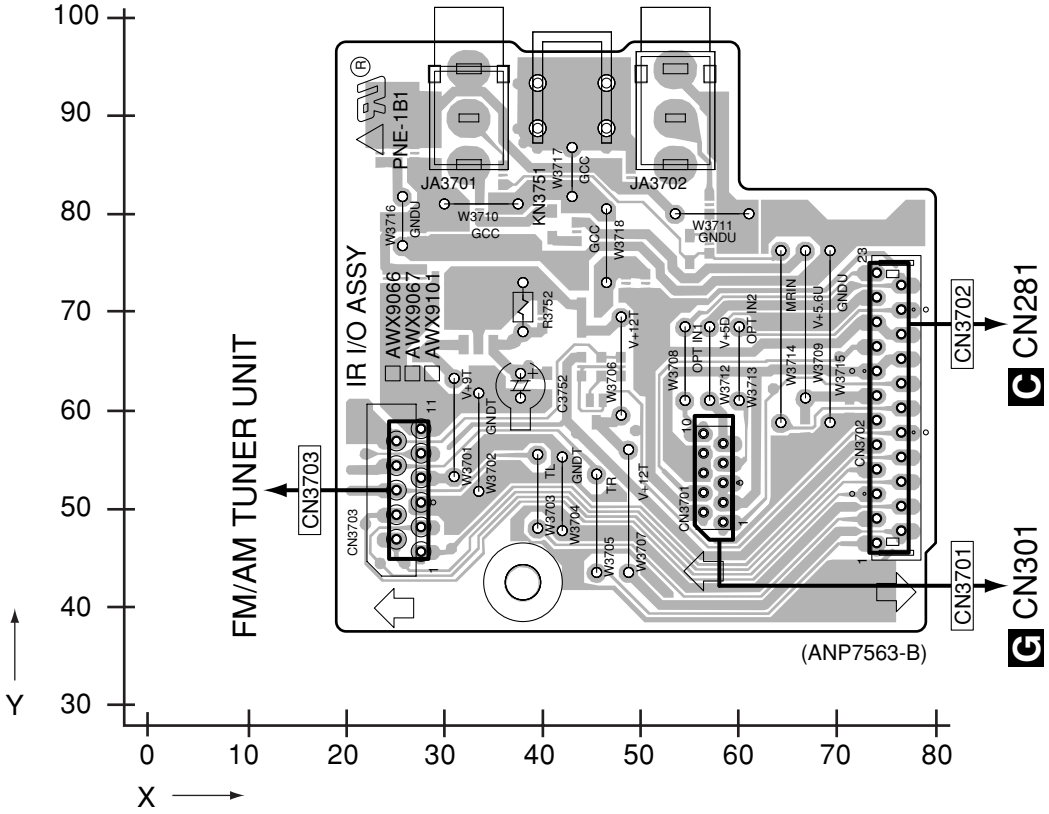

0 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330
TRANS SIDE ASSY
AWX9056-
AWX9057-
PNE-1B1
CN3204
CN3203
(ANP7563-B)

4.23 IR I/O ASSY

SIDE A

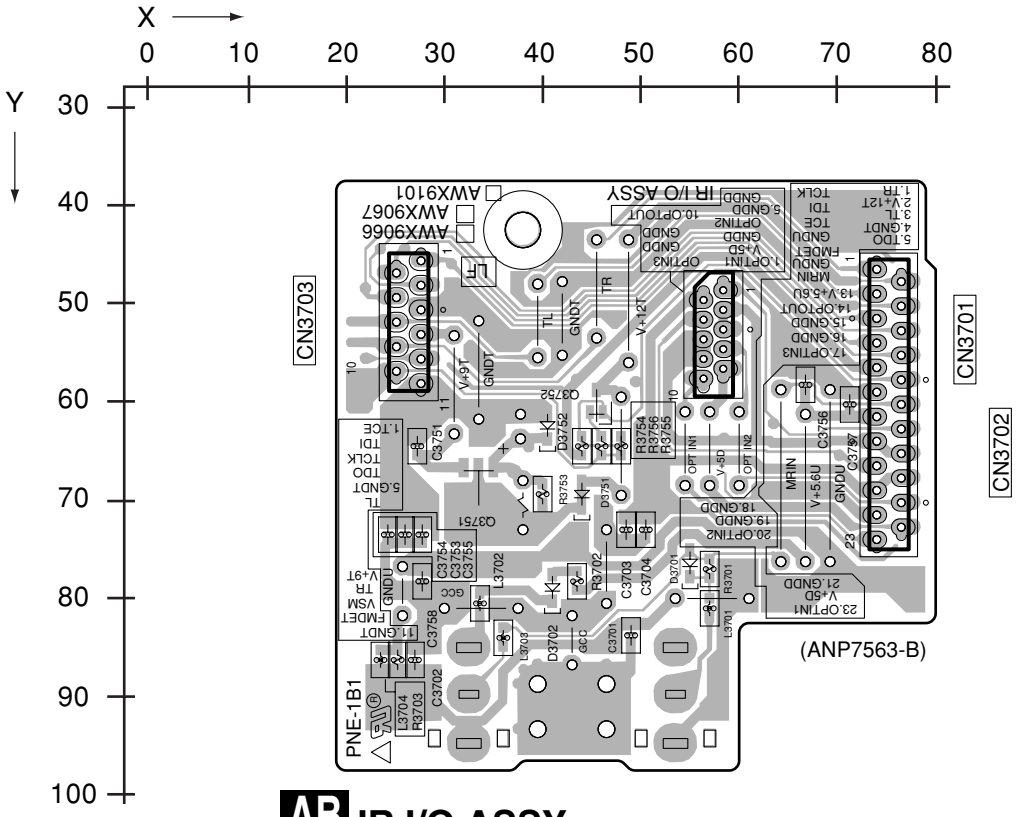
SIDE A

AB **IR I/O ASSY**



SIDE B

SIDE B



AB **IR I/O ASSY**

AB

AB

A

B

C

D

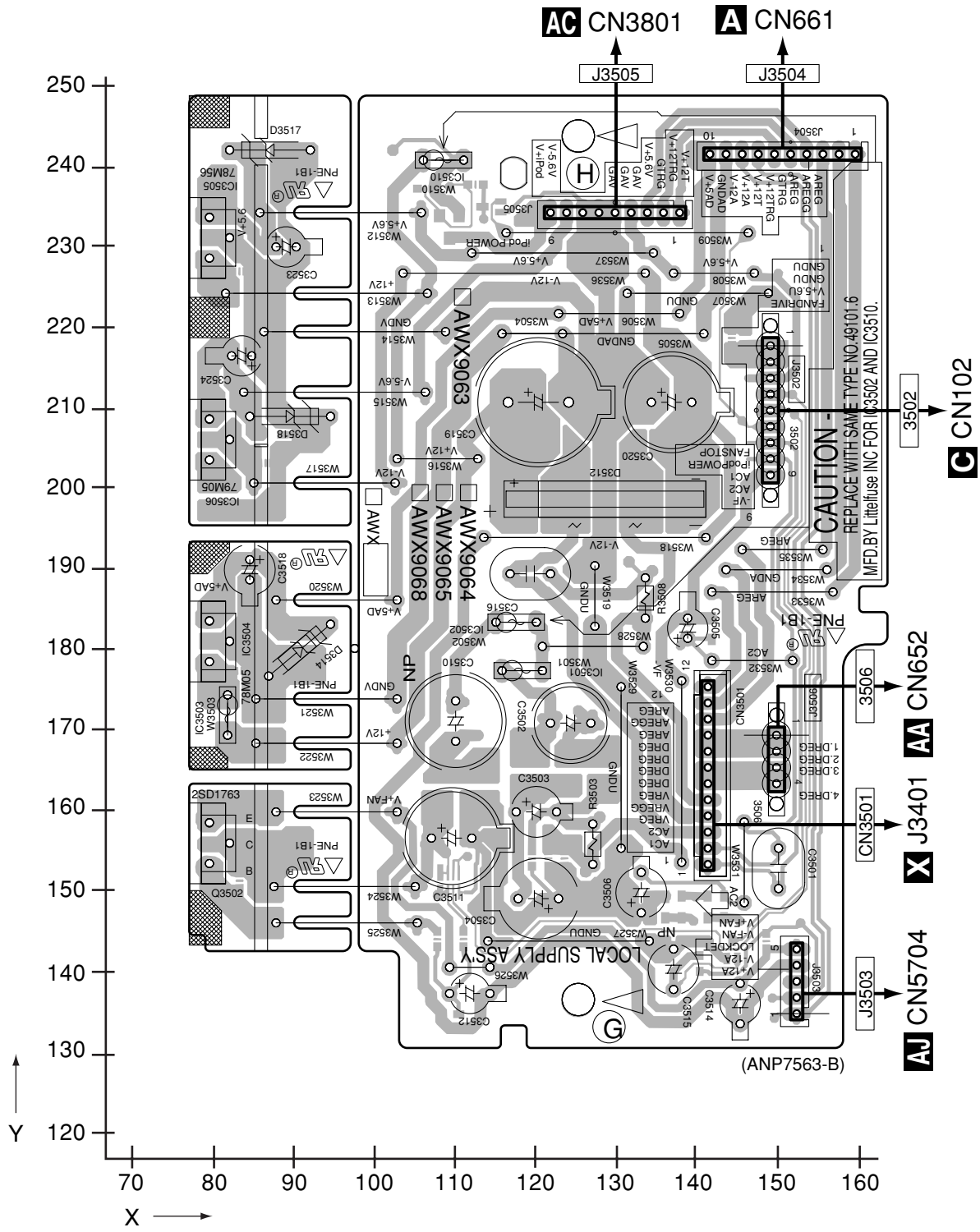
E

F

4.24 LOCAL P-SUPPLY ASSY

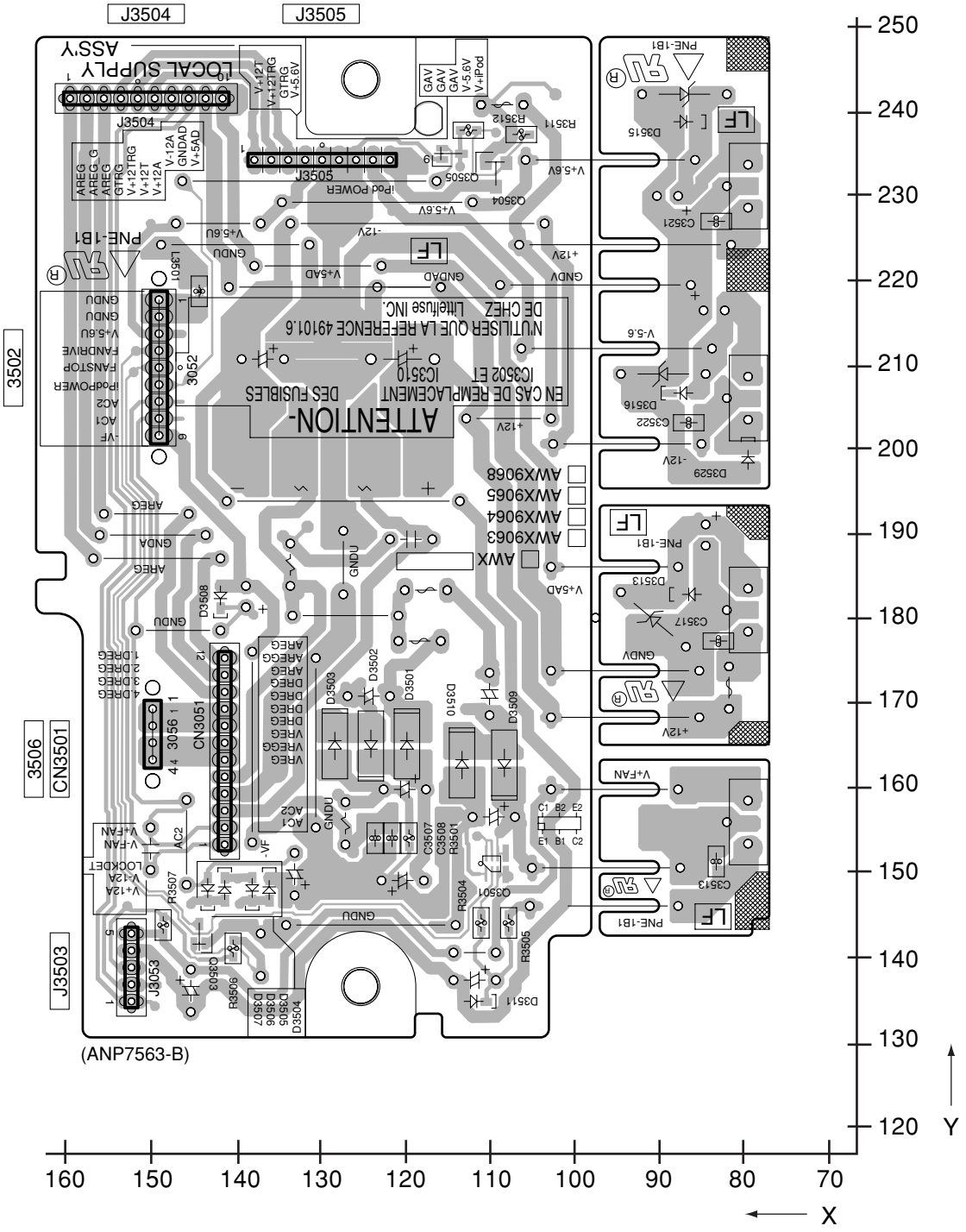
SIDE A **SIDE A**

Z LOCAL P-SUPPLY ASSY



SIDE B

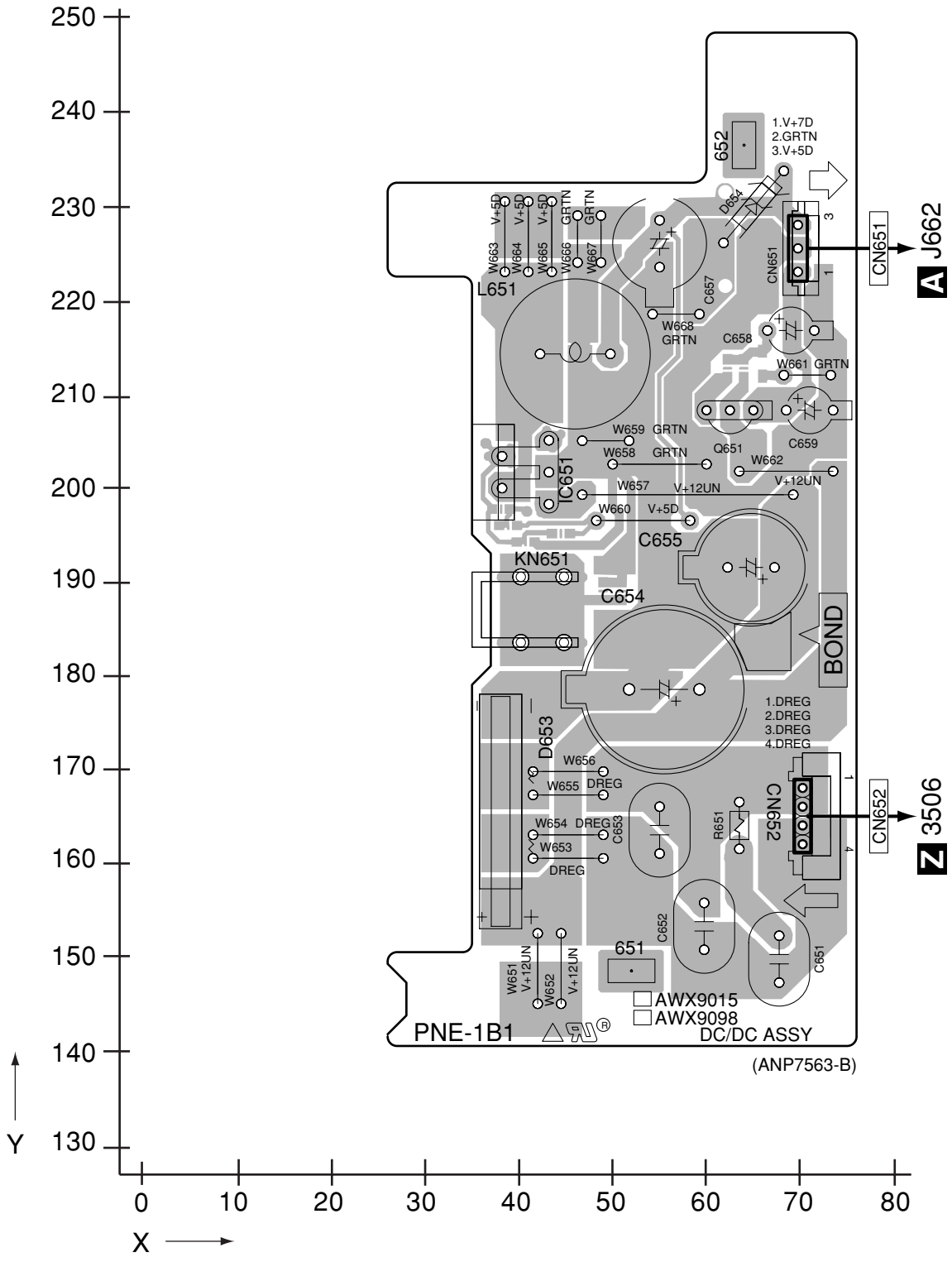
Z LOCAL P-SUPPLY ASSY



4.25 DC/DC ASSY

SIDE A **SIDE A**

AA DC/DC ASSY

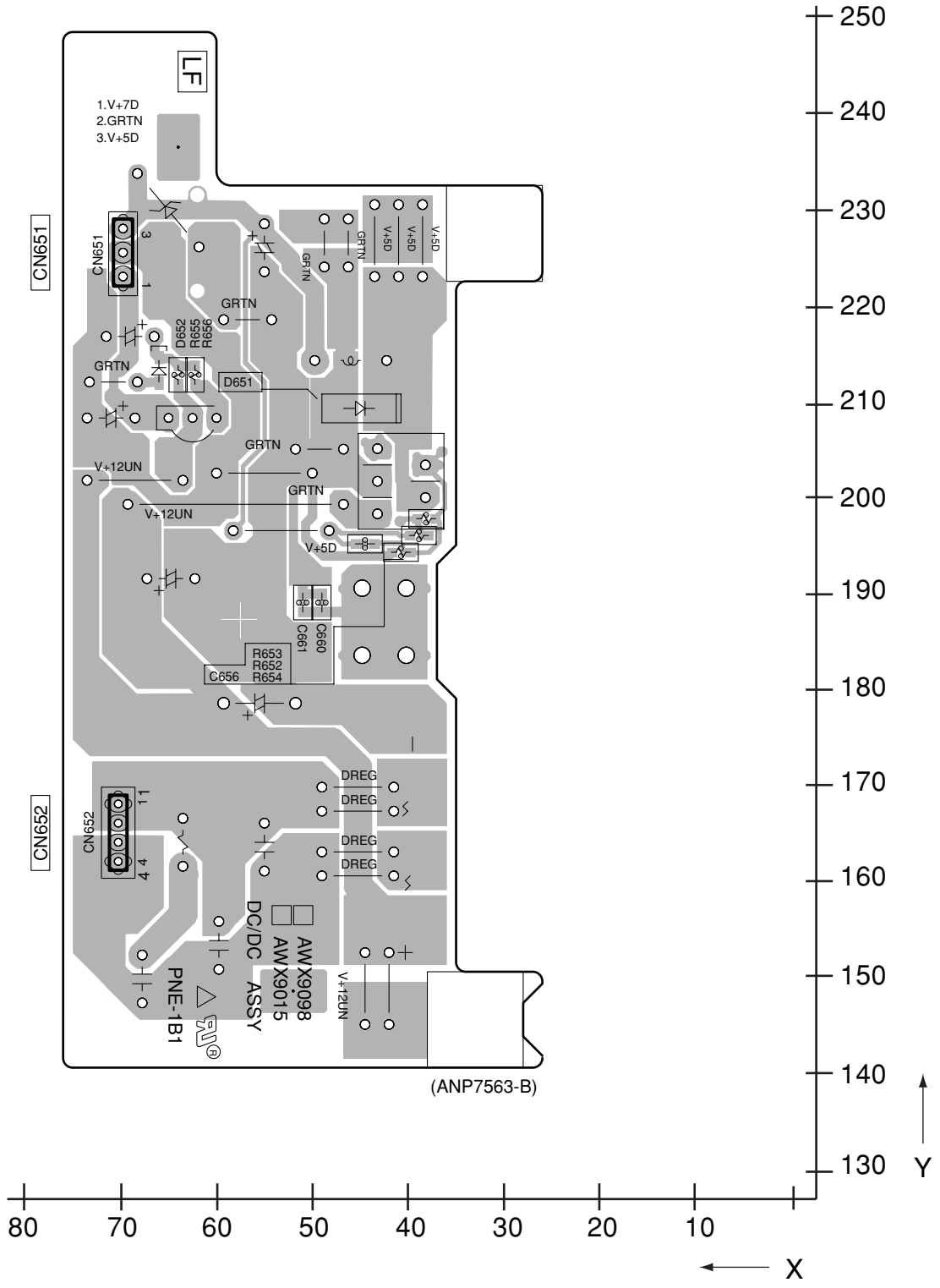


AA **AA**

SIDE B

SIDE B

AA DC/DC ASSY



AA

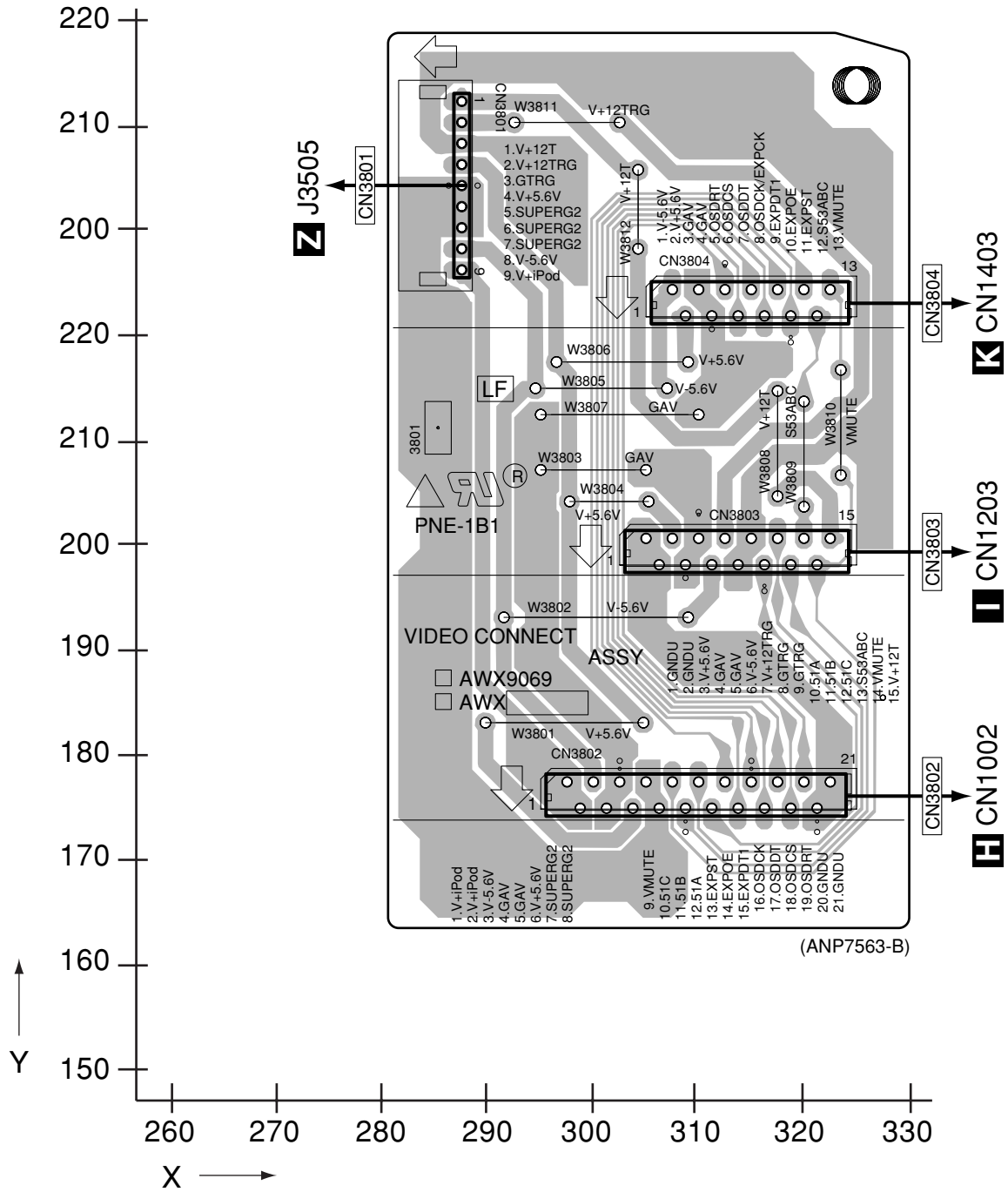
AA

5 6 7 8

4.26 VIDEO CONNECT ASSY

SIDE A **SIDE A**

AC VIDEO CONNECT ASSY

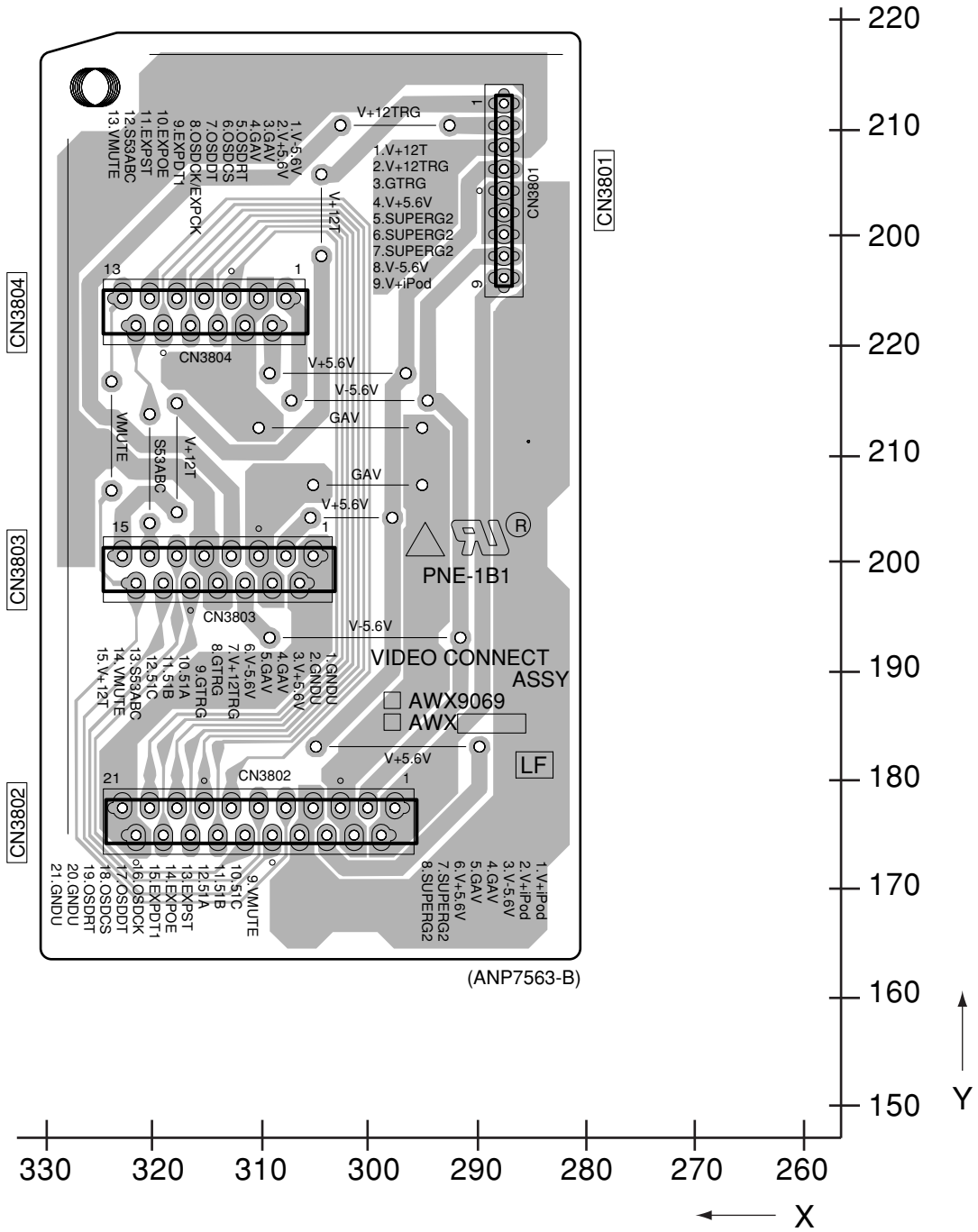


AC **AC**

SIDE B

SIDE B

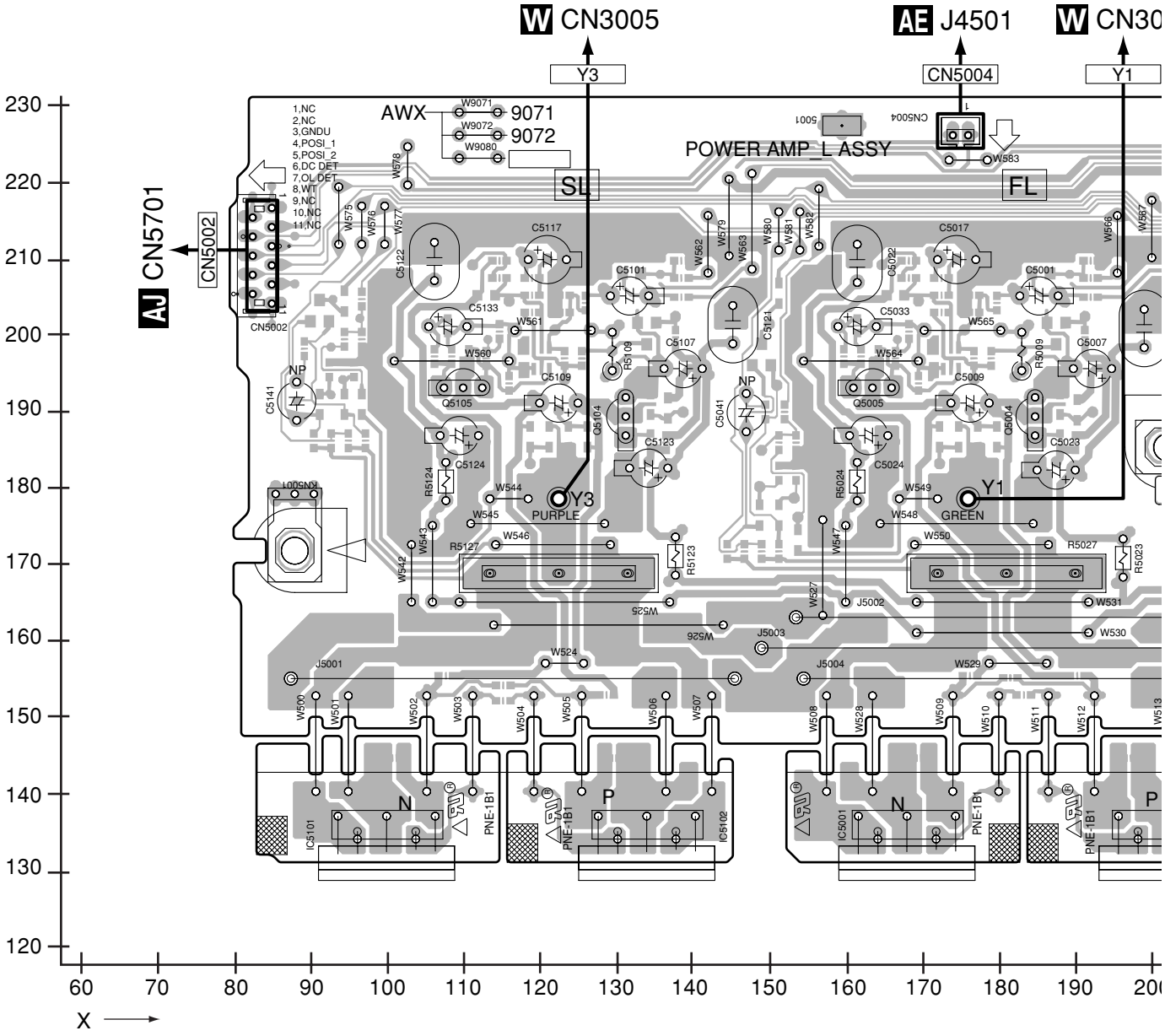
AC VIDEO CONNECT ASSY

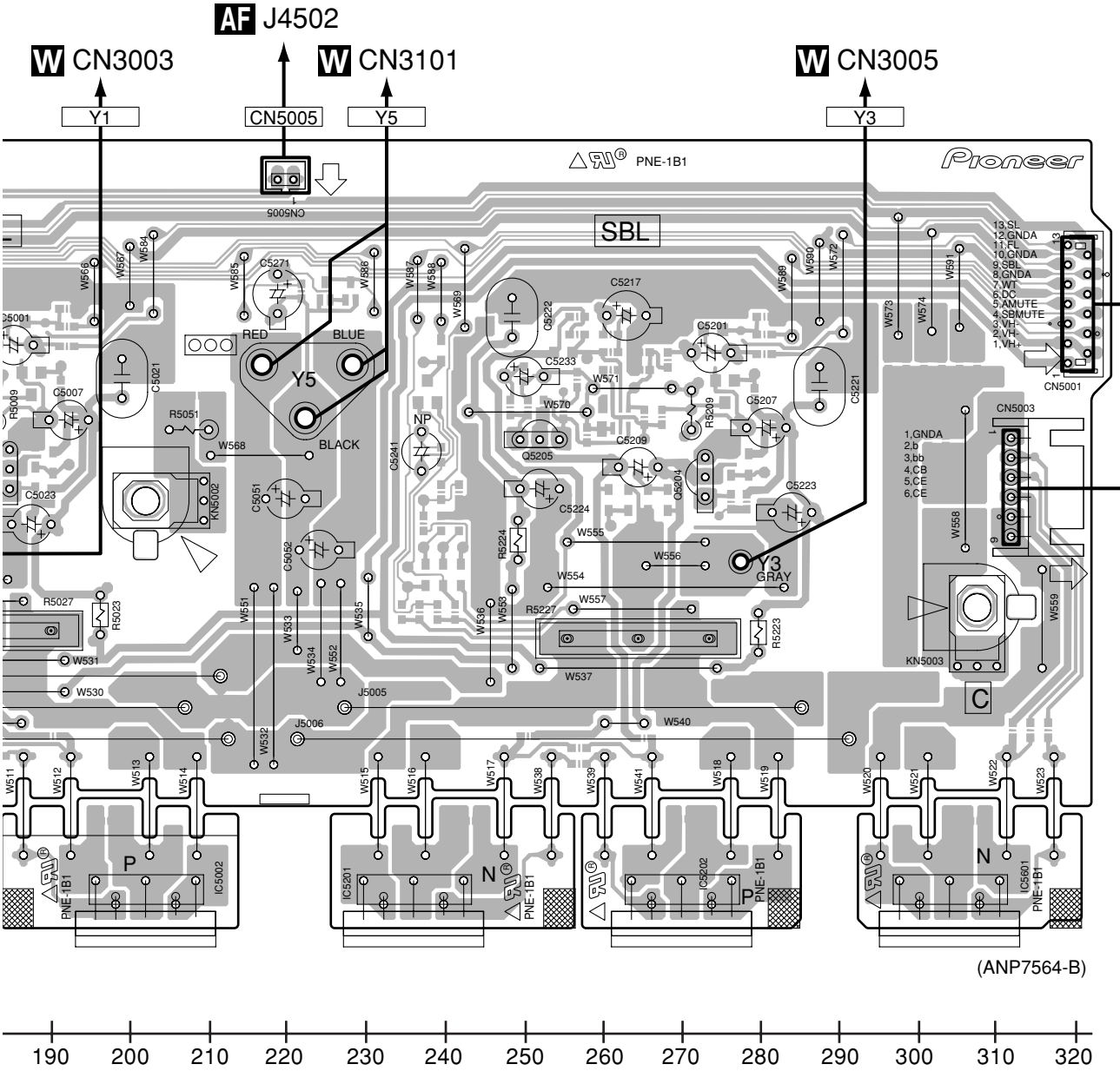


4.27 POWER AMP-L ASSY

SIDE A

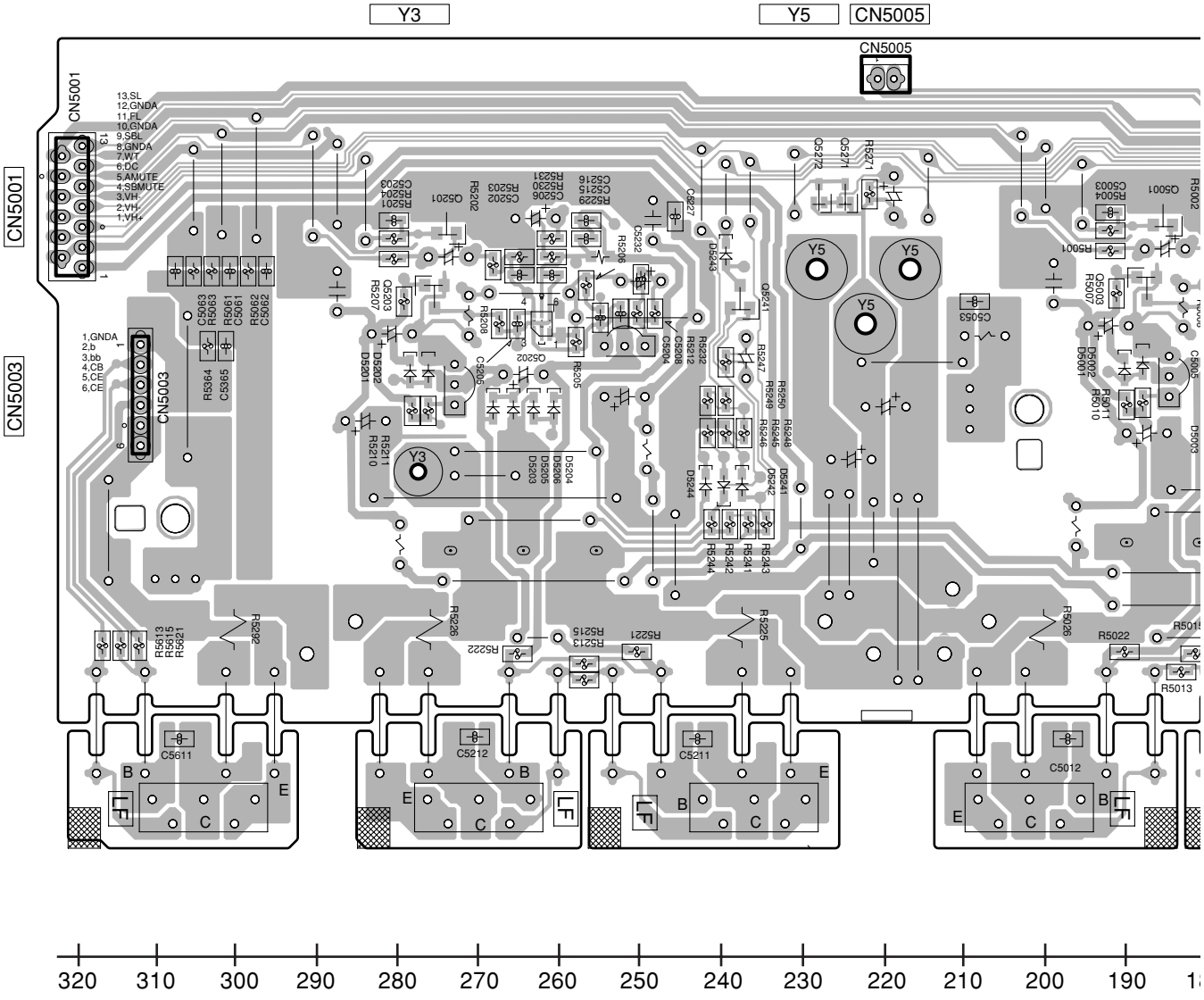
AD POWER AMP-L ASSY



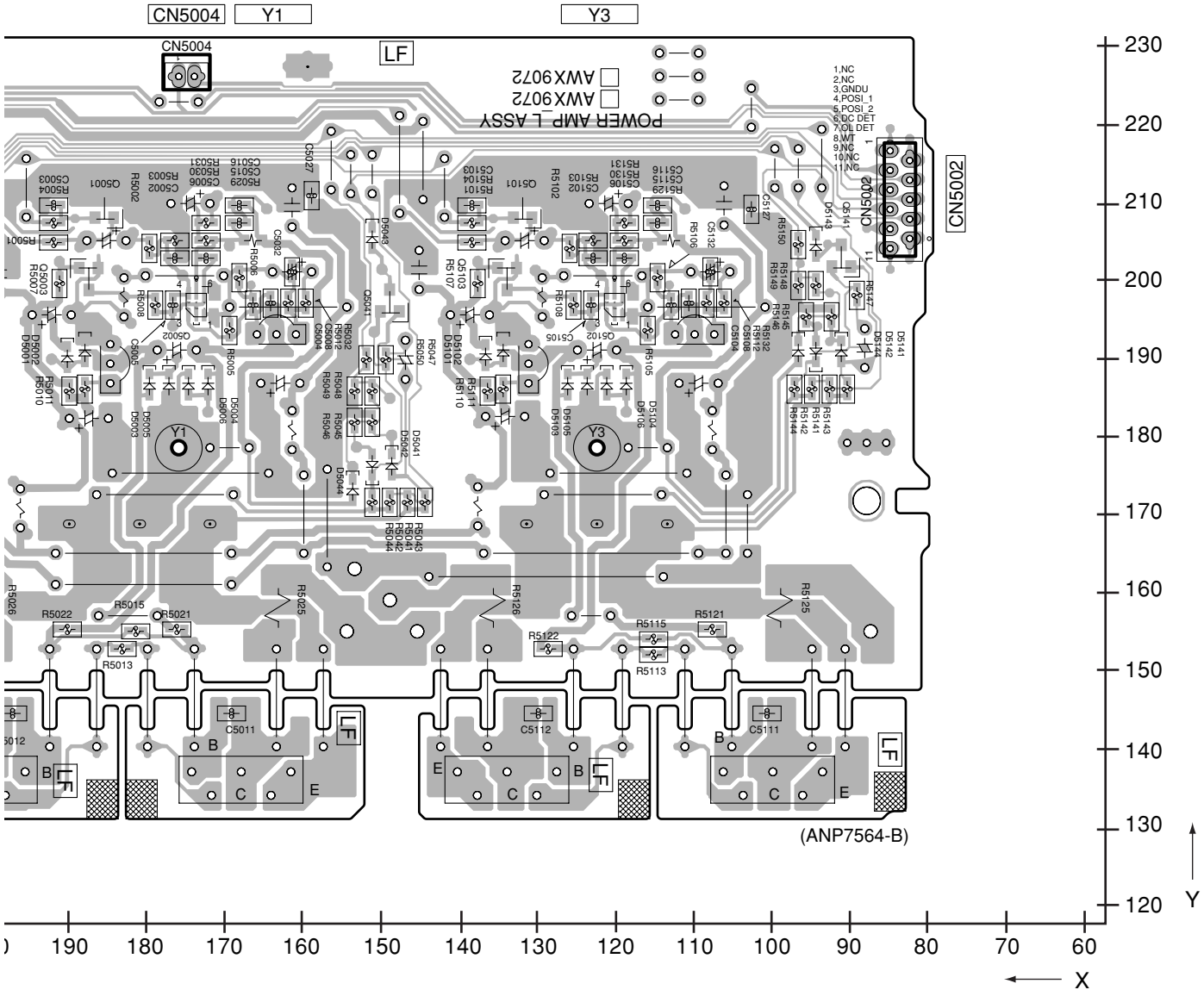

AF J4502
W CN3003
W CN3101
W CN3005
Y1
CN5005
Y5
Y3
PNE-1B1
Pioneer
SBL
RED
BLUE
BLACK
Y5
Y3
GRAY
NP
CN5001
CN5003
AI CN5601
AI CN5605
KN5002
KN5003
IC5002
IC5201
IC5202
IC5601
P
N
C
J5005
J5006
W530
W531
W540
W537
(ANP7564-B)
190
200
210
220
230
240
250
260
270
280
290
300
310
320

SIDE B

AD POWER AMP-L ASSY



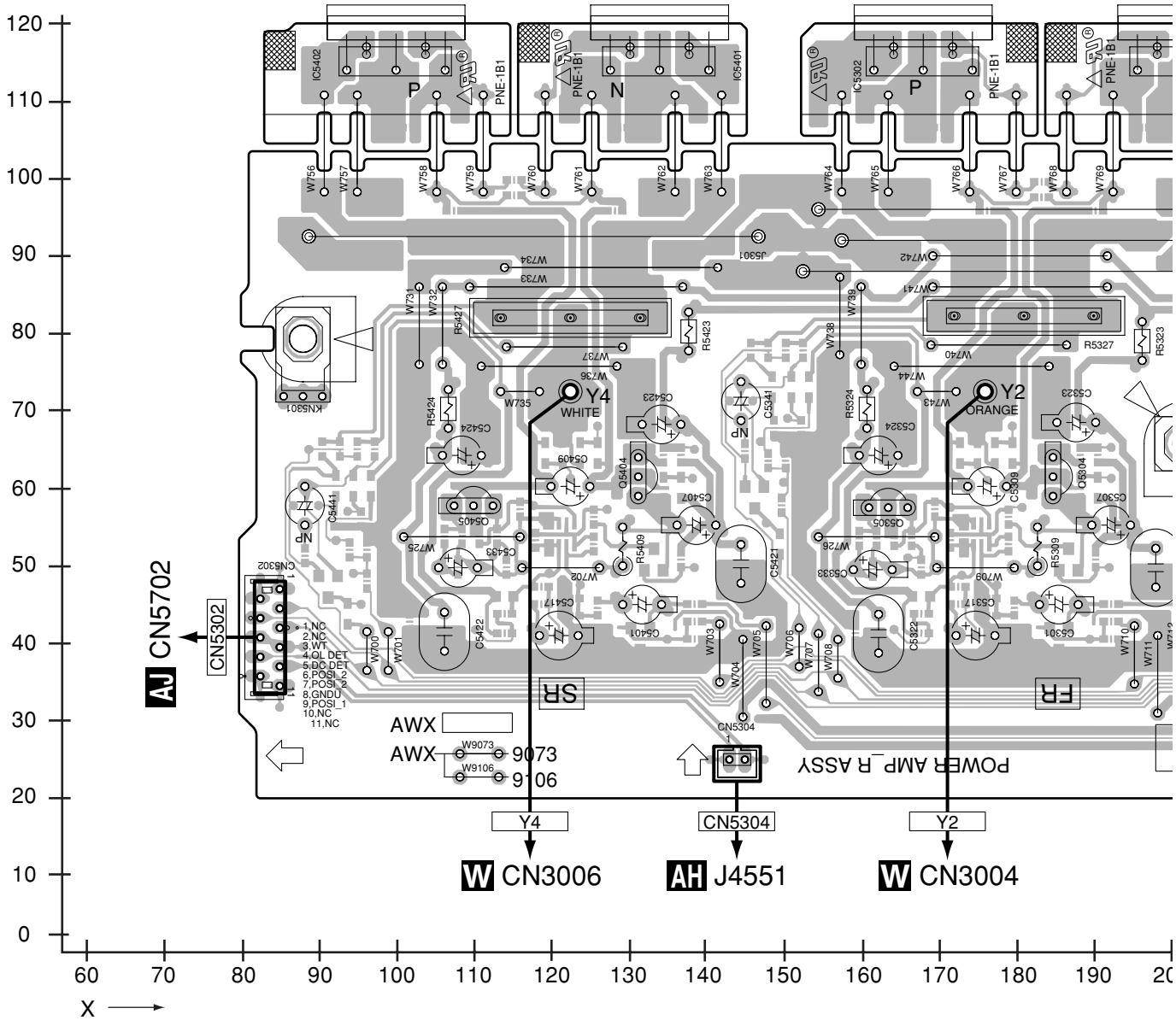
SIDE B


CN5004
Y1
Y3
CN5004
LF
POWER AMP_L ASSY
AWX9072
AWX9072
1,NC
2,NC
3,GNDU
4,POSI_1
5,POSI_2
6,DC DET
7,OL DET
8,MT
9,NC
10,NC
11,NC
CN5002
CN5002
Y1
Y3
R5022
R5015
R5021
R5013
R5025
R5126
R5122
R5115
R5121
R5125
C5011
C5112
C5111
B
C
E
LF
(ANP7564-B)
230
220
210
200
190
180
170
160
150
140
130
120
Y
190
180
170
160
150
140
130
120
110
100
90
80
70
60
X

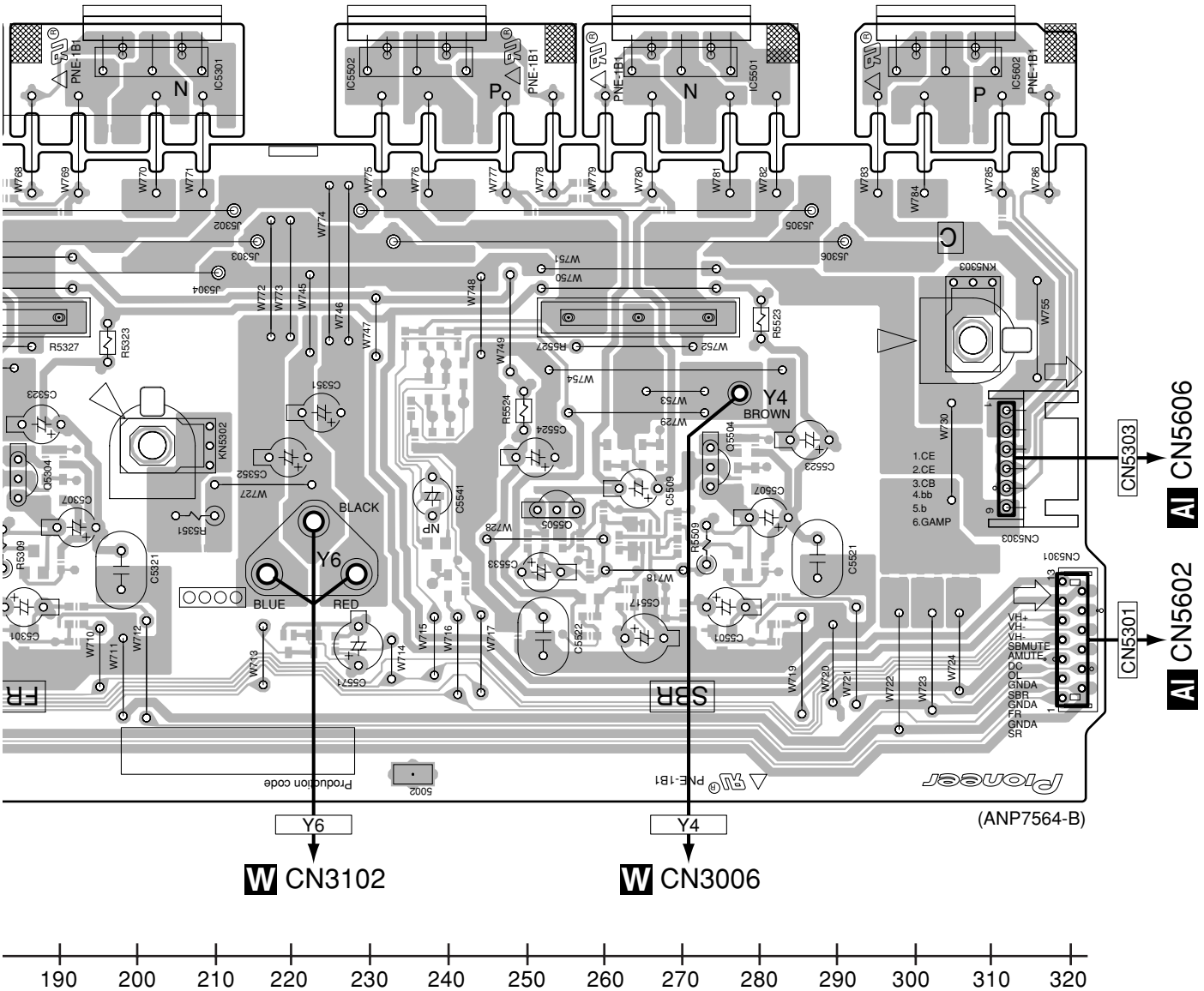
4.28 POWER AMP-R ASSY

SIDE A

AG POWER AMP-R ASSY



SIDE A

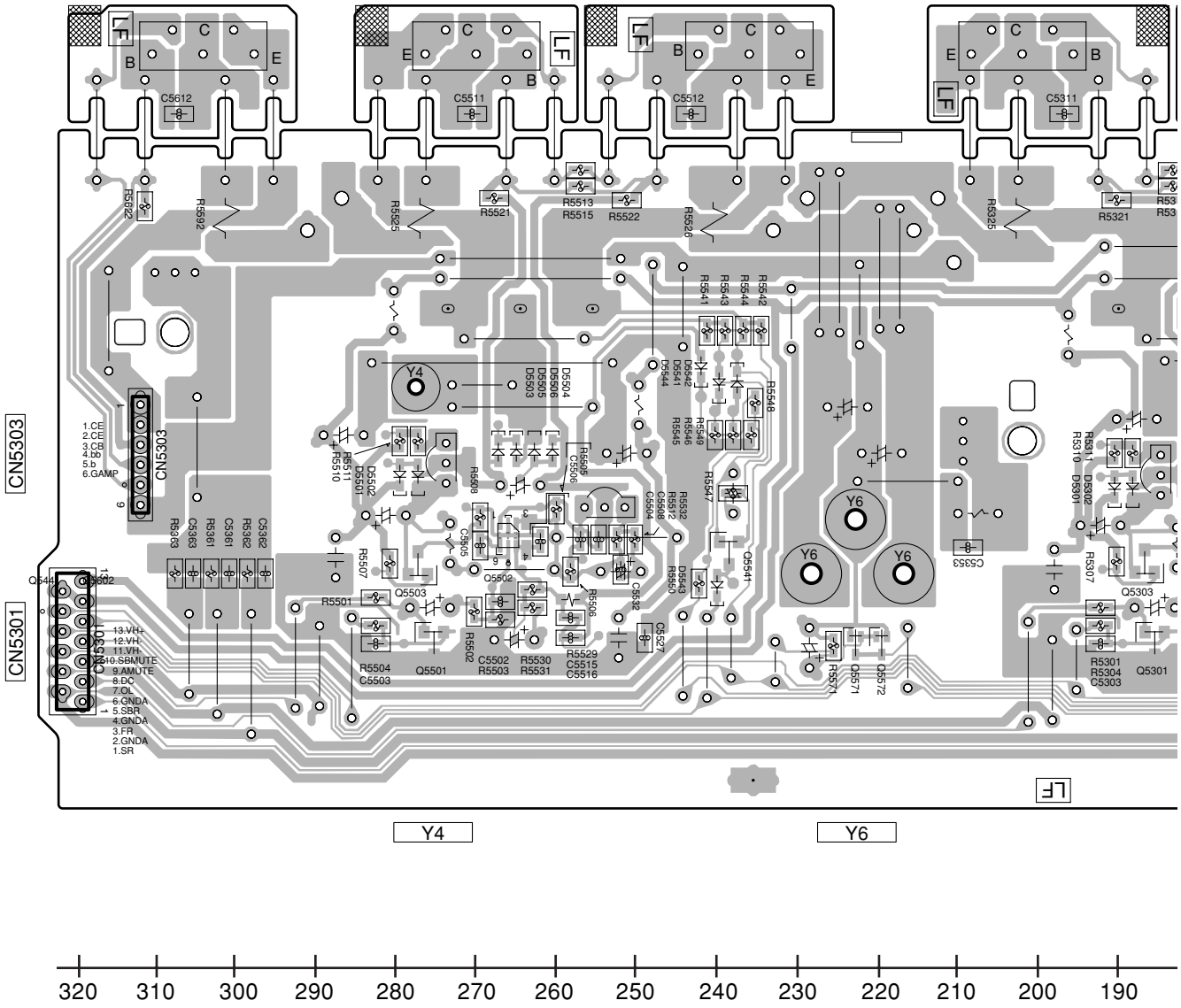


190 200 210 220 230 240 250 260 270 280 290 300 310 320

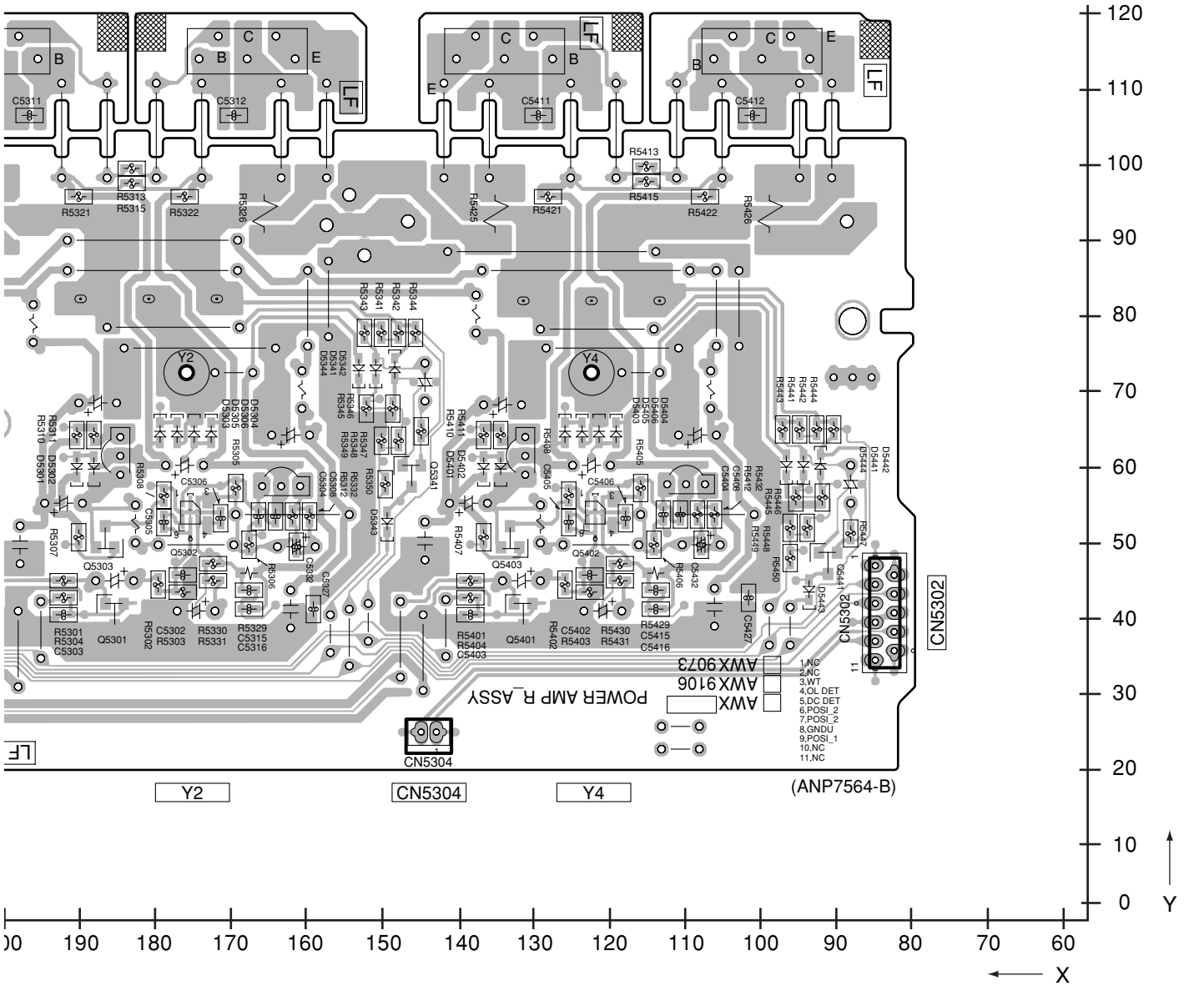
AG

SIDE B

AG POWER AMP-R ASSY



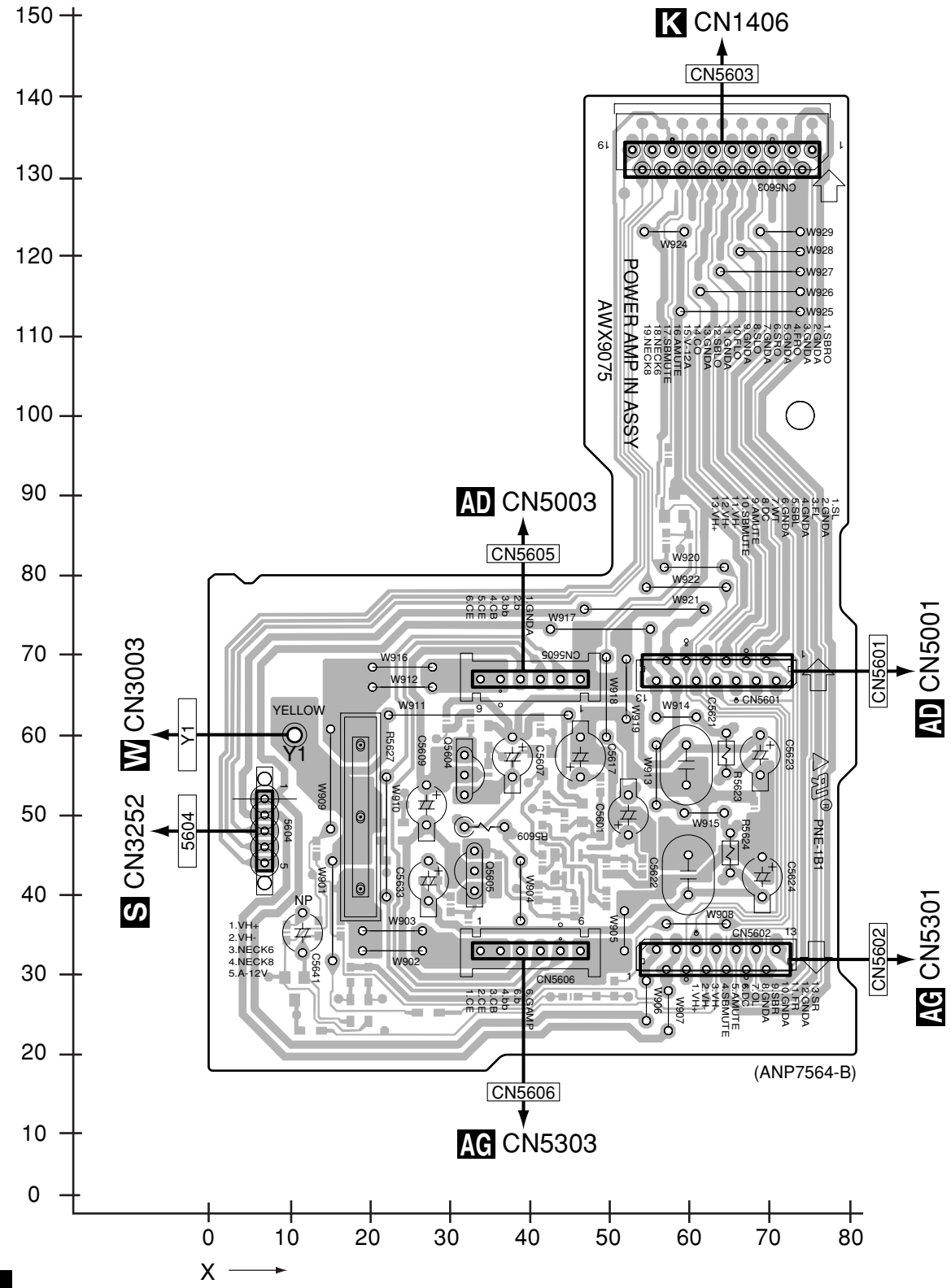
SIDE B


CN5304
CN5302
Y2
Y4
(ANP7564-B)
POWER AMP R_ASSY
AWX9073
AWX9106
AWX
1,NC
2,NC
3,WT
4,OL DET
5,DC DET
6,POSI_2
7,POSI_2
8,GNDU
9,POSI_1
10,NC
11,NC
120
110
100
90
80
70
60
50
40
30
20
10
0
Y
190
180
170
160
150
140
130
120
110
100
90
80
70
60
X

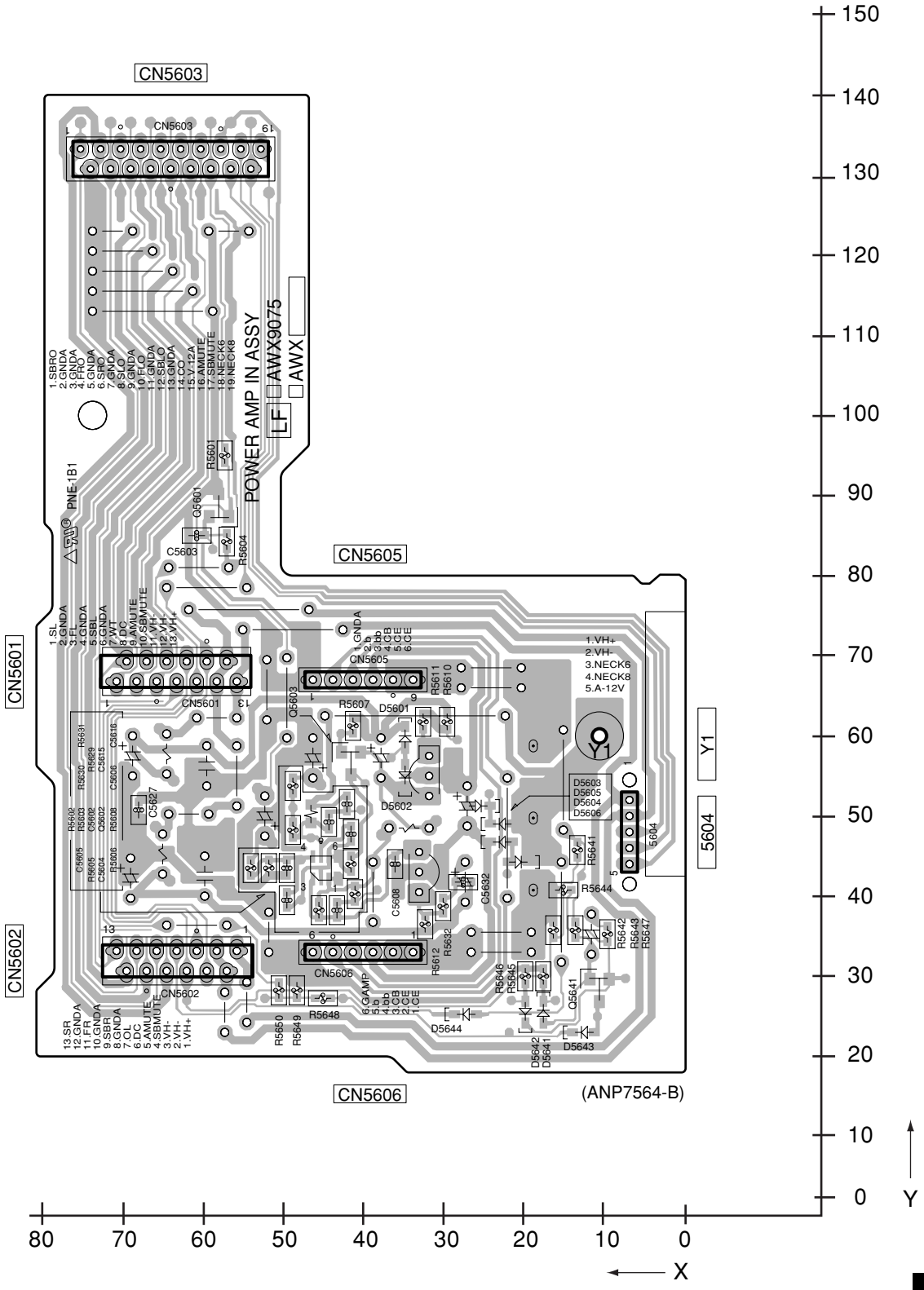
4.29 POWER AMP IN ASSY

SIDE A **SIDE A**

AI POWER AMP IN ASSY



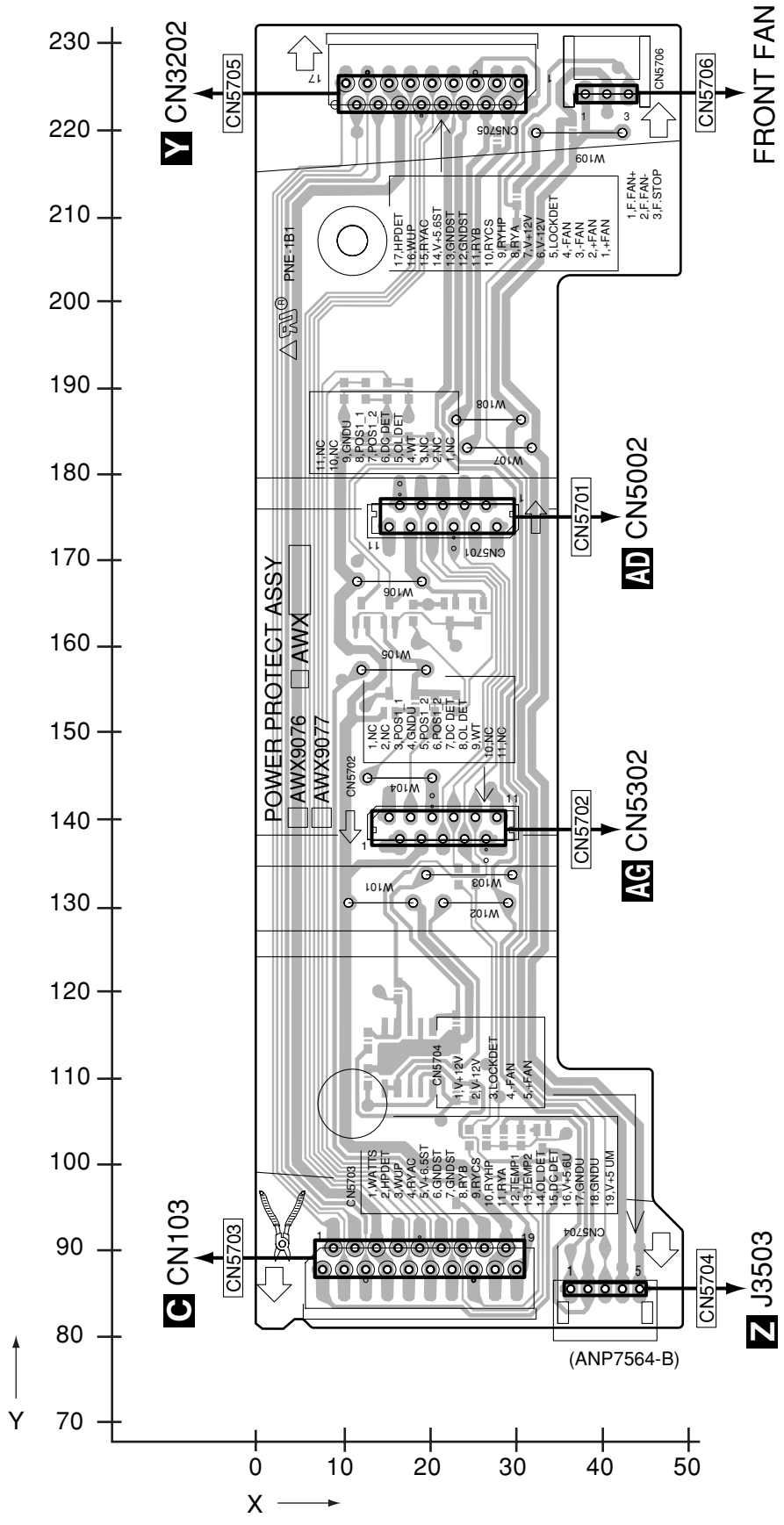
AI POWER AMP IN ASSY



4.30 POWER PROTECT ASSY

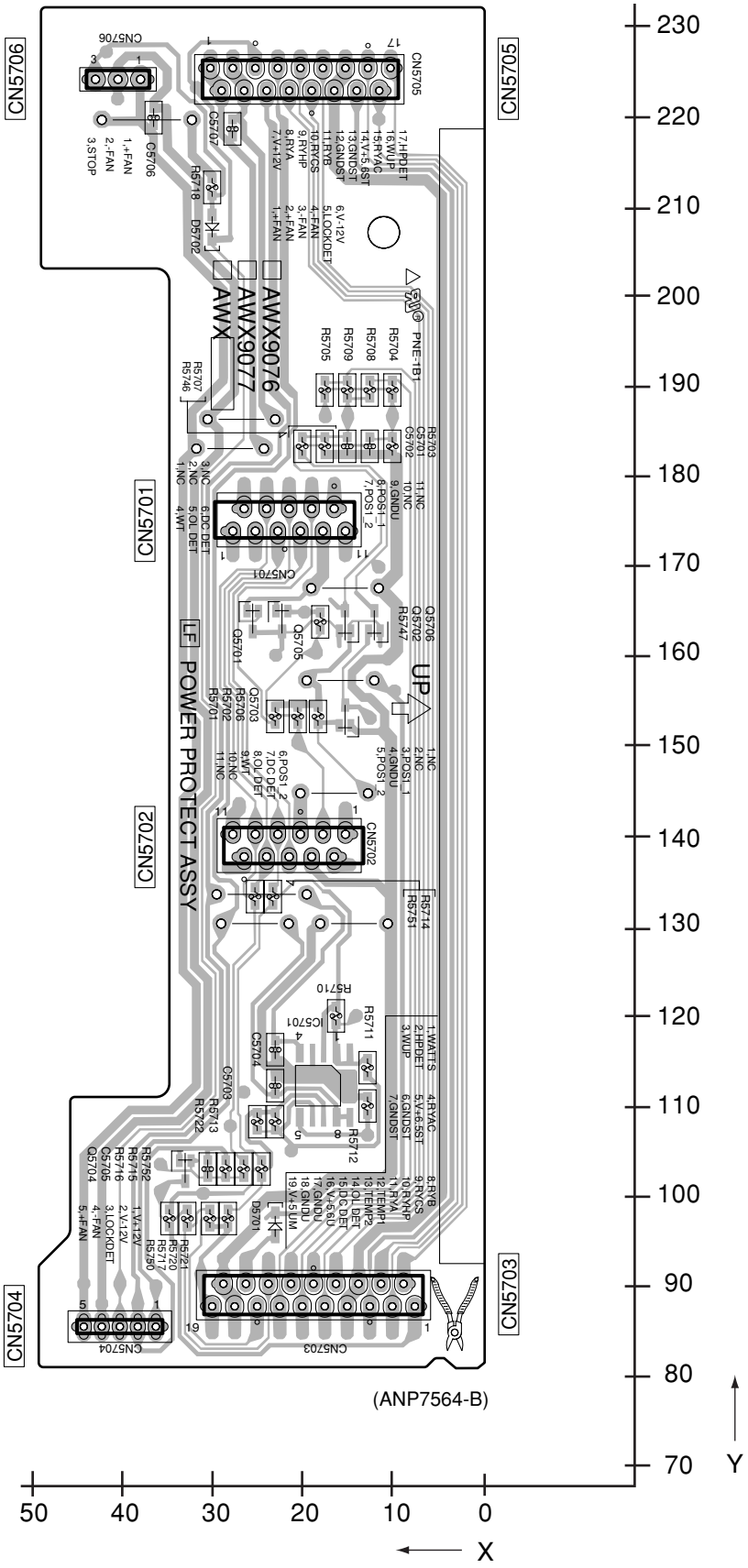
SIDE A **SIDE A**

AJ POWER PROTECT ASSY



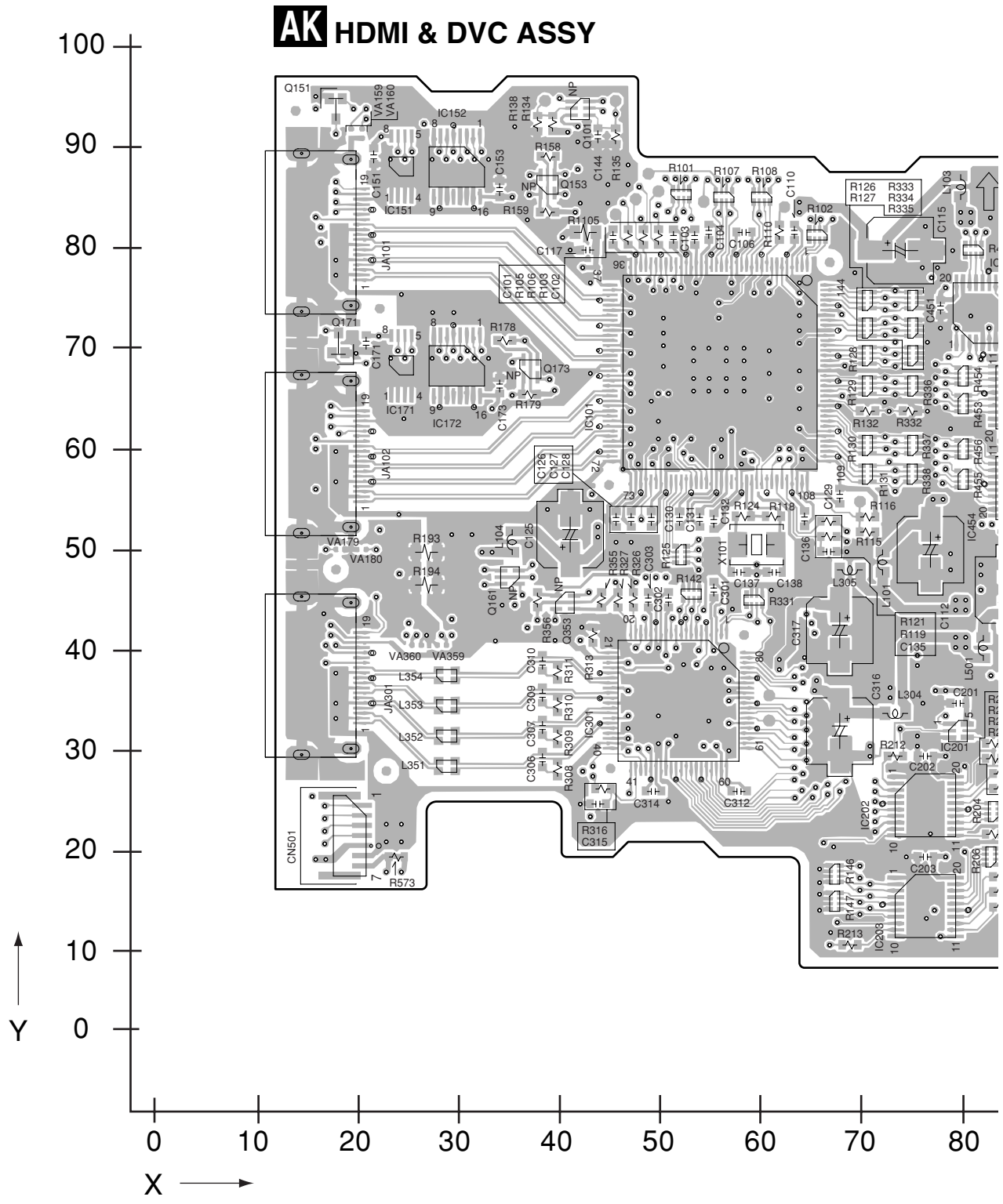
SIDE B

AJ POWER PROTECT ASSY



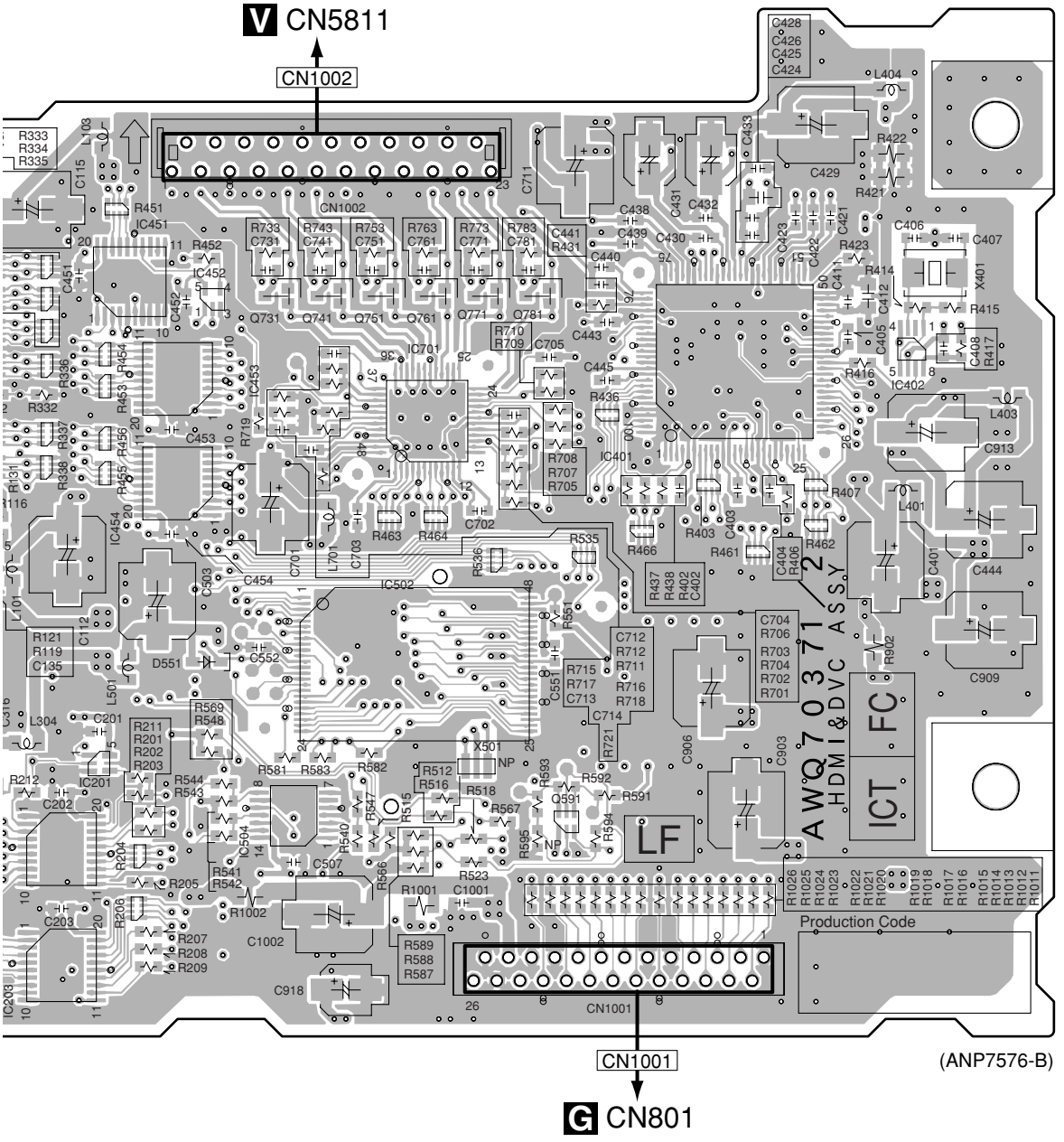
4.31 HDMI & DVC ASSY

SIDE A



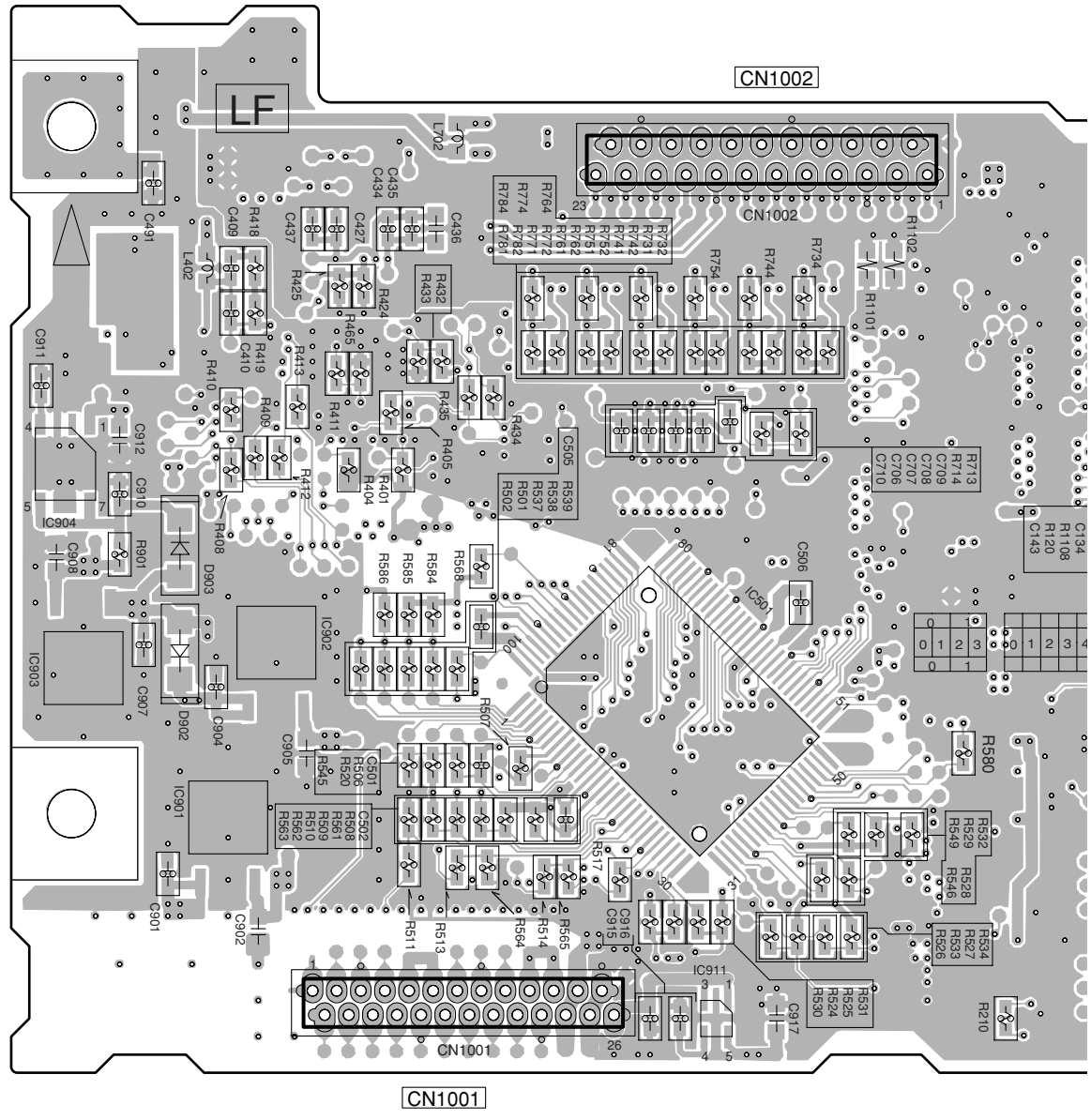
AK

SIDE A

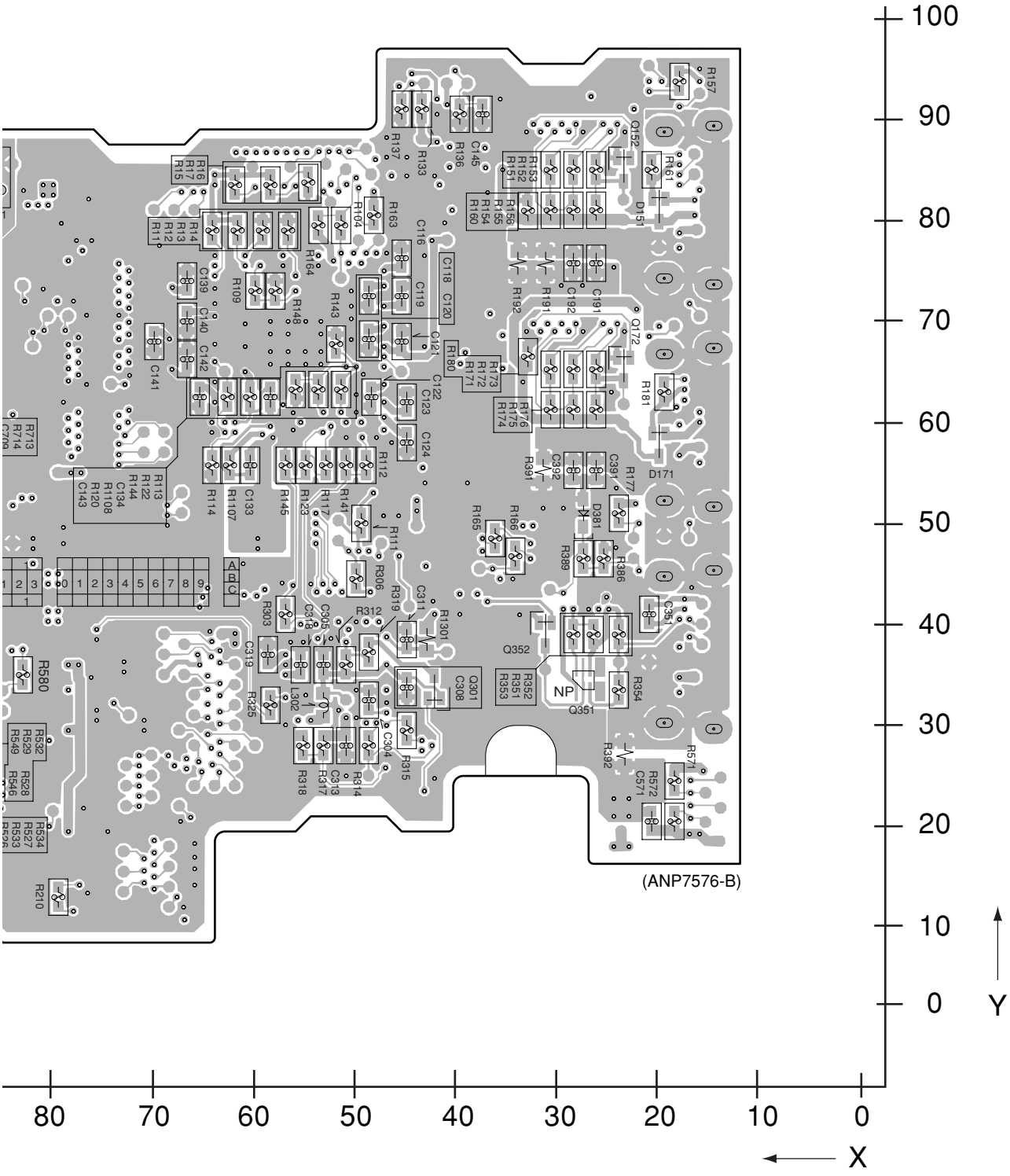

V CN5811
CN1002
CN1001
G CN801
(ANP7576-B)
AWQ7037 1
HDMI&DVC ASSY
ICT
FC
LF
Production Code

SIDE B

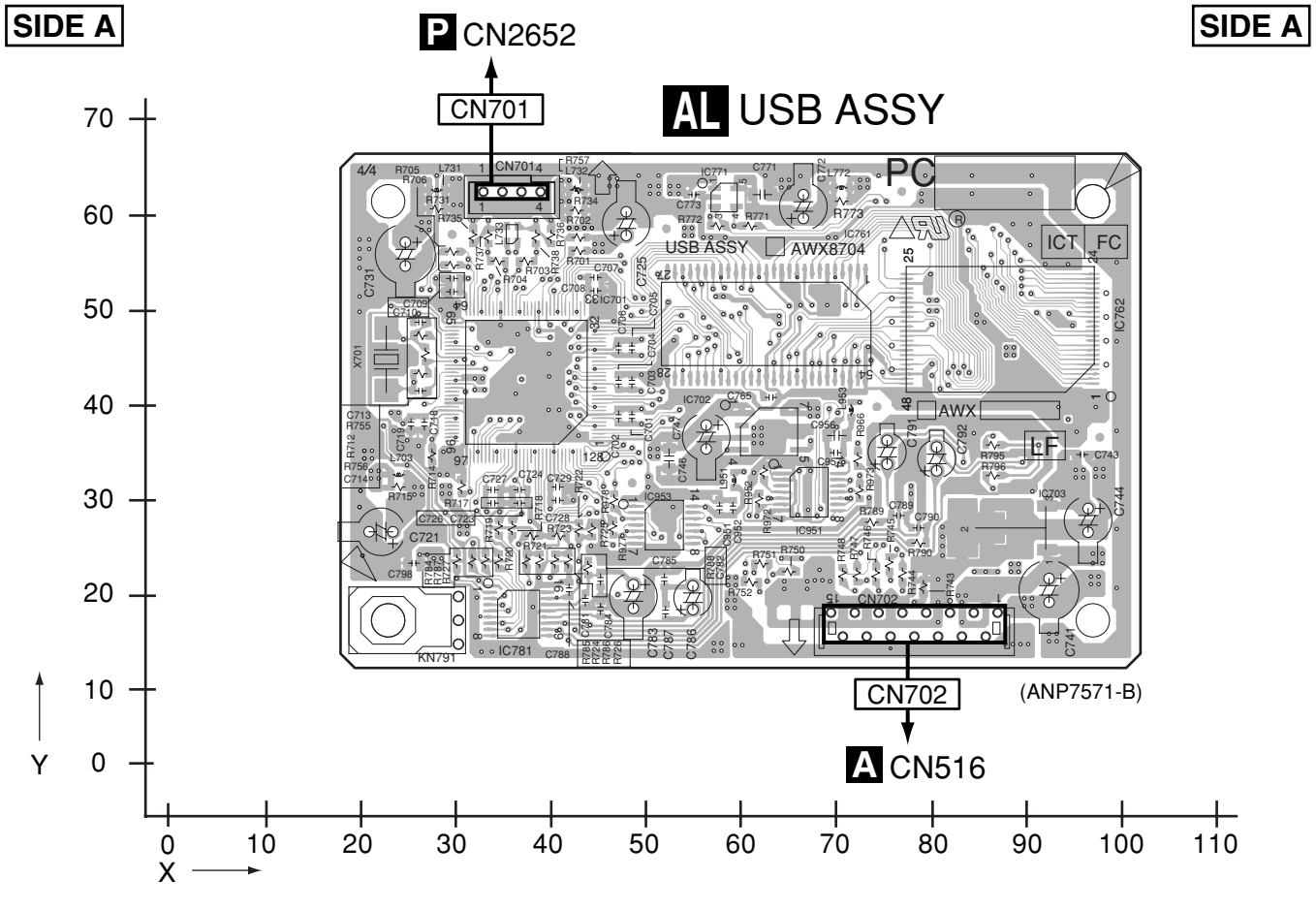
AK HDMI & DVC ASSY



SIDE B


100
90
80
70
60
50
40
30
20
10
0
Y
80
70
60
50
40
30
20
10
0
X
(ANP7576-B)
NP

4.32 USB ASSY (VSX-2016AV-S ONLY)



A

B

C

D

E

F

5. PCB PARTS LIST

NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*

● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

● *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56 x 10[1] → 561 ..... RD1/4PU 5 6 1 J

47k Ω → 47 x 10[3] → 473 ..... RD1/4PU 4 7 3 J

0.5 Ω → R50 ..... RN2H R 5 0 K

1 Ω → 1R0 ..... RS1P 1 R 0 K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562 x 10[1] → 5621 ..... RN1/4PC 5 6 2 1 F

● *Meaning of the figures and others in the parentheses in the parts list.*

Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.

IC 301 (A, 91, 111) IC NJM2068V

■ LIST OF WHOLE PCB ASSEMBLIES

Mark	Symbol and Description	VSX-2016AV-S /HYXJ5	VSX-81TXV /KUXJCA	VSX-81TXV-S /KUXJCA	VSX-9110TXV-K /KUXJ
NSP	1..MAIN ASSY	AWK7889	AWK7888	AWK7888	AWK7888
	2..MAIN CONTROL ASSY	AWX9009	AWX9008	AWX9008	AWX9008
	2..AUDIO IN ASSY	AWX9013	AWX9012	AWX9012	AWX9012
	2..12V-REG ASSY	AWX9014	AWX9014	AWX9014	AWX9014
	2..GUARD-C ASSY	AWX9051	AWX9051	AWX9051	AWX9051
	2..GUARD-F ASSY	AWX9070	AWX9070	AWX9070	AWX9070
	1..DSP ASSY	AWX8698	AWX8697	AWX8697	AWX8697
NSP	1..VIDEO ASSY	AWK7898	AWK7897	AWK7897	AWK7897
	2..COMPOSITE ASSY	AWX9028	AWX9026	AWX9026	AWX9026
	2..S-VIDEO ASSY	AWX9030	AWX9029	AWX9029	AWX9029
	2..COMPONENT ASSY	AWX9031	AWX9032	AWX9032	AWX9032
	2..BRIDGE 2 ASSY	AWX9050	AWX9050	AWX9050	AWX9050
NSP	1..COMPLEX ASSY	AWK7902	AWK7901	AWK7943	AWK7901
	2..PRIMARY ASSY	AWX9035	AWX9034	AWX9034	AWX9034
	2..TRANS 1 ASSY	AWX9038	AWX9038	AWX9038	AWX9038
	2..DISPLAY ASSY	AWX9103	AWX9040	AWX9040	AWX9040
	2..VOLUME ASSY	AWX9111	AWX9044	AWX9111	AWX9044
	2..MULTI JOG ASSY	AWX9112	AWX9045	AWX9112	AWX9045
	2..FRONT-IN ASSY	AWX9048	AWX9047	AWX9047	AWX9047
	2..HEADPHONE ASSY	AWX9049	AWX9049	AWX9049	AWX9049
NSP	1..SECONDARY ASSY	AWK7911	AWK7910	AWK7910	AWK7910
	2..PS/SP ASSY	AWX9107	AWX9052	AWX9052	AWX9052
	2..TRANS SIDE ASSY	AWX9056	AWX9056	AWX9056	AWX9056
	2..TRANS 2-1 ASSY	AWX9059	AWX9058	AWX9058	AWX9058
	2..DIODE 1 ASSY	AWX9060	AWX9060	AWX9060	AWX9060
	2..VH TR ASSY	AWX9061	AWX9061	AWX9061	AWX9061
	2..TRANS 2-2 ASSY	AWX9062	AWX9062	AWX9062	AWX9062
	2..LOCAL P-SUPPLY ASSY	AWX9064	AWX9063	AWX9063	AWX9063
	2..IR I/O ASSY	AWX9067	AWX9066	AWX9066	AWX9066
	2..VIDEO CONNECT ASSY	AWX9069	AWX9069	AWX9069	AWX9069
	2..DC/DC ASSY	AWX9015	AWX9015	AWX9015	AWX9015
	2..BRIDGE 1 ASSY	AWX9078	AWX9078	AWX9078	AWX9078
NSP	1..POWER AMP ASSY	AWK7920	AWK7919	AWK7919	AWK7919
	2..POWER AMP-L ASSY	AWX9072	AWX9071	AWX9071	AWX9071
	2..POWER AMP-R ASSY	AWX9073	AWX9106	AWX9106	AWX9106
	2..POWER AMP IN ASSY	AWX9075	AWX9075	AWX9075	AWX9075
	2..POWER PROTECT ASSY	AWX9077	AWX9076	AWX9076	AWX9076
	2..POSI 1-L ASSY	AWX9081	AWX9080	AWX9080	AWX9080
	2..POSI 2-L ASSY	AWX9082	Not used	Not used	Not used
	2..POSI 1-R ASSY	AWX9084	AWX9083	AWX9083	AWX9083
	1..HDMI & DVC ASSY	AWQ7037	AWQ7037	AWQ7037	AWQ7037
	1..USB ASSY	AWX8704	Not used	Not used	Not used

■ CONTRAST OF PCB ASSEMBLIES

A AUDIO IN ASSY

AWX9013 and AWX9012 are constructed the same except for the following :

Mark	Symbol and Description	AWX9013	AWX9012
	IC663	Not used	NJM78M12FA
	D671	Not used	RB501V-40
	C501, C502, C505-C510, C513-C518	CCSRCH101J50	Not used
	C521-C526, C541-C544, C549-C552	CCSRCH101J50	Not used
	C503, C504, C511, C512, C519, C520	CCSRCH221J50	Not used
	C527, C528, C531-C536, C539, C540	CCSRCH151J50	Not used
	C547, C548	CCSRCH151J50	Not used
	C678	Not used	CKSRYB103K50
	C679	Not used	CEAT100M50
	CN516 15P PLUG	XKP3067	Not used

C MAIN CONTROL ASSY

AWX9009 and AWX9008 are constructed the same except for the following :

Mark	Symbol and Description	AWX9009	AWX9008
	IC251	LC72725M	Not used
	Q102	Not used	RT1P241M
	C251	CEAT100M50	Not used
	C253	CCSRCH561J50	Not used
	C254	CEAT101M10	Not used
	C255	CKSRYB102K50	Not used
	C256, C257	CCSRCH270J50	Not used
	C260	CKSRYB472K50	Not used
	R116, R131	Not used	RS1/16S104J
	R124, R126, R127, R171	RS1/16S101J	Not used
	R128-R130, R132, R199, R333	Not used	RS1/16S101J
	R152	RS1/16S473J	Not used
	R153	Not used	RS1/16S473J
	R156	Not used	RS1/16S103J
	R187, R188	RS1/16S0R0J	Not used
	R189	RS1/16S104J	Not used
	R251	RS1/16S473J	RS1/16S474J
	R252-R254	RS1/16S102J	Not used
	R383, R384	Not used	RS1/16S0R0J
	CN305 12P CONNECTOR	Not used	VKN1243
	X251 CRYSTAL RESONATOR (4.332 MHz)	ASS7004	Not used

G DSP ASSY

AWX8698 and AWX8697 are constructed the same except for the following :

Mark	Symbol and Description	AWX8698	AWX8797
	IC501	Not used	F2602E-01
	IC502	Not used	AAT4618IGV-0.5-1
	IC601	Not used	TC74VHC157FTS1
	D501, D502	Not used	UDZS5R6(B)
	L501, L601 CHIP SOLID INDUCTOR	Not used	QTL1013
	L502 CHIP SOLID INDUCTOR	Not used	ATL7002
	C501	Not used	CEVW470M6R3
	C502, C504-C506, C508, C602	Not used	CKSRYB104K16
	C503, C601	Not used	CCSRCH471J50
	C507	Not used	CEVW101M16

Mark	Symbol and Description	AWX8698	AWX8797
	C509, C510	Not used	CCSRCH100D50
	C513	Not used	CKSQYB105K16
	R503, R613-R616	RS1/16S0R0J	Not used

Mark	Symbol and Description	AWX8698	AWX8797
	R504, R506, R516, R523-R526, R528	Not used	RS1/16S101J
	R601-R603, R605, R608, R610-R612	Not used	RS1/16S101J
	R505, R507	Not used	RS1/16S102J
	R510	Not used	RS1/16S471J
	R511	Not used	RS1/16S105J
	R514, R515, R517, R519-R521	Not used	RS1/16S104J
	R518	Not used	RAB4C101J
	R527, R529, R604, R606, R607, R609	Not used	RS1/16S470J
	R531	Not used	RS1/16S103J
	R964	Not used	RAB4C104J
	X501 CRYSTAL RESONATOR (45.1584 MHz)	Not used	ASS7065
	CN501 4P SOCKET	Not used	AKP7201
	CN952 12P CONNECTOR	Not used	VKN1416
	JA351	AKB7131 (JACK)	AKB7173 (PIN JACK 2P)

H COMPOSITE ASSY

AWX9028 and AWX9026 are constructed the same except for the following :

Mark	Symbol and Description	AWX9028	AWX9026
	IC1002	Not used	CD74HC4051PW
	IC1151	Not used	M61545FP
	Q1151	Not used	IMX25
	D1006	Not used	DAN202U
	D1007	Not used	1SS355
	D1112	Not used	DAN217U
	C1003, C1004, C1164	Not used	CKSRYB103K50
	C1015	Not used	CEAT101M10
	C1023	Not used	CCSRCH181J50
	C1101-C1104	CCSRCH101J50	Not used
	C1151-C1154	Not used	CEAT2R2M50
	C1155, C1156, C1161, C1162	Not used	CCSRCH101J50
	C1157, C1158	Not used	CCSRCH331J50
	C1159, C1163	Not used	CKSRYB104K50
	C1160	Not used	CEAT100M50
	R1005	Not used	RS1/16S750J
	R1053	Not used	RS1/16S0R0J
	R1151, R1152	Not used	RS1/16S104J
	R1153, R1154	Not used	RS1/16S202J
	R1155, R1156	Not used	RS1/16S103J
	R1157, R1158	Not used	RS1/16S101J
	R1159, R1160, R1164	Not used	RS1/16S471J
	R1163	Not used	RS1/16S473J
	1004 PIN JACK (2P)	Not used	AKB7176
	1005 PIN JACK (2P)	Not used	AKB7181
	JA1006 PIN JACK (1P)	AKB7175	Not used

I S-VIDEO ASSY

AWX9030 and AWX9029 are constructed the same except for the following :

Mark	Symbol and Description	AWX9030	AWX9029
	IC1301	Not used	MAX3232CPW
	Q1301	Not used	2SC4081(QRS)
	Q1351, Q1353	Not used	2SA1576A(RS)
	Q1352	Not used	RT1N241M
	D1302	Not used	1SS355
	D1351	Not used	UDZS5R1(B)
	L1351 CHIP SOLID INDUCTOR	Not used	ATL7002
	C1304, C1305	Not used	CKSRYB105K10
	C1306	Not used	CKSRYB473K50
	C1308	Not used	CKSRYB224K16

Mark	Symbol and Description	AWX9030	AWX9029
	C1309, C1311, C1353	Not used	CKSRYB103K50
	C1310	Not used	CCSRCH331J50
	C1352	Not used	CKSRYB104K16
	C1354	Not used	CKSRYB102K50
	C1355	Not used	CKSRYB472K50
	R1301-R1304	Not used	RS1/16S101J
	R1305, R1308	Not used	RS1/16S224J
	R1306	Not used	RS1/16S474J
	R1307, R1353, R1354	Not used	RS1/16S103J
	R1309	Not used	RS1/16S0R0J
	R1310	RS1/16S103J	Not used
	R1351, R1352	Not used	RS1/16S180J
	R1355, R1356	Not used	RS1/16S472J
	CN1301 9P D-SUB SOCKET	Not used	AKP1213
	CN1302 07P CONNECTOR	RKN1048	Not used
	JA1351 JACK	Not used	RKN1004
	KN1351 SCREW PLATE	Not used	VNE1948

K COMPONENT ASSY

AWX9031 and AWX9032 are constructed the same except for the following :

Mark	Symbol and Description	AWX9031	AWX9032
	C1501, C1502, C1521, C1522, C1541, C1542	CCSRCH101J50	Not used
	C1561, C1562	CCSRCH101J50	Not used
	C1507, C1508, C1527, C1528, C1569-C1572	CCSRCH271J50	Not used

L DISPLAY ASSY

AWX9103 and AWX9040 are constructed the same except for the following :

Mark	Symbol and Description	AWX9103	AWX9040
	IC2401	Not used	CD4053BNS
	Q2402	Not used	UMB1N
	Q2403	Not used	DTC124EUA
	D2401	Not used	1SS355
	D2402	Not used	DAN217U
	D2415	Not used	DAN202U
	C2402	Not used	CKSRYB153K50
	C2412	Not used	CKSRYB103K50
	R2407	Not used	RS1/16S223J
	R2408, R2410	Not used	RS1/16S103J
	R2409	Not used	RS1/16S392J
	R2414	RS1/16S0R0J	Not used

M VOLUME ASSY

AWX9111 and AWX9044 are different in part number, but construction is the same.

N MULTI JOG ASSY

AWX9112 and AWX9045 are different in part number, but construction is the same.

P FRONT-IN ASSY

AWX9048 and AWX9047 are constructed the same except for the following :

Mark	Symbol and Description	AWX9048	AWX9047
	L2752, L2753 CHIP FERRITE BEAD	VTL1169	Not used
	C2673	CKSRYB104K16	CKSRYB104K25
	C2753, C2756	CKSRYB104K16	Not used
	C2755	CEAT101M16	Not used
	C2757	CCSRCH471J50	Not used

Mark	Symbol and Description	AWX9048	AWX9047
	R2751, R2752	RS1/16S0R0J	Not used
	CN2652 CONNECTOR	B4B-PH-K-S	Not used
	JA2751 USB CONNECTOR	XKP3086	Not used

Q PRIMARY ASSY

AWX9035 and AWX9034 are constructed the same except for the following :

Mark	Symbol and Description	AWX9035	AWX9034
⚠	RY2001	ASR7013	ASR7022
⚠	T2001 STANDBY TRANSFORMER	ATT7040	ATT7043
⚠	R2001 (2.2 M, 1/2 W)	Not used	RCN1080
	R2002	RD1/4MUF101J	RD1/4MUF220J
⚠	2001 AC SOCKET 1P	Not used	AKP1033

S TRANS 2-1 ASSY

AWX9059 and AWX9058 are constructed the same except for the following :

Mark	Symbol and Description	AWX9059	AWX9058
	D3253	UDZS8R2(B)	UDZS10(B)
	D3254	UDZS7R5(B)	UDZS9R1(B)
	D3255	UDZS9R1(B)	UDZS10(B)
	D3256	UDZS8R2(B)	UDZS9R1(B)
	D3263	UDZS13(B)	UDZS10(B)
	D3264	UDZS15(B)	UDZS12(B)

W PS/SP ASSY

AWX9107 and AWX9052 are constructed the same except for the following :

Mark	Symbol and Description	AWX9107	AWX9052
	C3101, C3102	ACH7255	ACH7258
	CN3001 SPEAKER TERMINAL 8P	AKE7119	AKE7118
	CN3002 SPEAKER TERMINAL 6P	AKE7108	AKE7107

Z LOCAL P-SUPPLY ASSY

AWX9064 and AWX9063 are constructed the same except for the following :

Mark	Symbol and Description	AWX9064	AWX9063
⚠	IC3502 (1.6A)	AEK7012	Not used
⚠	Q3501	UMD2N	Not used
⚠	Q3502	2SD1763A(DE)	Not used
	Q3503	DTC124EUA	Not used
⚠	D3509, D3510	1SR154-400	Not used
	D3511	UDZS27(B)	Not used
	C3510	CEANP102M16	Not used
	C3511	CEAT102M35	Not used
	C3512, C3514	CEAT100M50	Not used
	C3513	CKSRYB102K50	Not used

Mark	Symbol and Description	AWX9064	AWX9063
	C3515	CEANP470M25	Not used
	R3504	RS1/16S472J	Not used
	R3505	RS1/16S101J	Not used
	R3506	RS1/16S222J	Not used

AB IR I/O ASSY

AWX9067 and AWX9066 are constructed the same except for the following :

Mark	Symbol and Description	AWX9067	AWX9066
	D3702	Not used	1SS355
	L3701, L3703 INDUCTOR	Not used	CTF1473
	L3702 CHIP SOLID INDUCTOR	Not used	QTL1013
	L3704 INDUCTOR	Not used	CTF1385
	C3758	Not used	CKSRYB103K50

Mark	Symbol and Description	AWX9067	AWX9066
	R3701	Not used	RS1/16S0R0J
	R3702	Not used	RS1/16S102J
	R3703, R3755	RS1/16S0R0J	Not used
	JA3701 CONNECTOR	Not used	CKS4124
	JA3702 JACK	Not used	RKN1004

AD POWER AMP-L ASSY

AWX9072 and AWX9071 are constructed the same except for the following :

Mark	Symbol and Description	AWX9072	AWX9071
	CN5005 CONNECTOR	B2B-PH-K-R	Not used

AE POSI 1-L ASSY

AWX9081 and AWX9080 are constructed the same except for the following :

Mark	Symbol and Description	AWX9081	AWX9080
	TH4501 POSISTOR	PTFM04BH222Q2N34B0	PTFM04BC222Q2N34B0

AG POWER AMP-R ASSY

AWX9073 and AWX9106 are constructed the same except for the following :

Mark	Symbol and Description	AWX9073	AWX9106
	5002 PCB BINDER	VEF1040	Not used

AH POSI 1-R ASSY

AWX9084 and AWX9083 are constructed the same except for the following :

Mark	Symbol and Description	AWX9084	AWX9083
	TH4503 POSISTOR	PTFM04BH222Q2N34B0	PTFM04BC222Q2N34B0

AJ POWER PROTECT ASSY

AWX9077 and AWX9076 are constructed the same except for the following :

Mark	Symbol and Description	AWX9077	AWX9076
	Q5703	RT1N241M	Not used
	Q5706	RT1P241M	Not used
	D5702	1SS355	Not used
	C5706	CKSRYB103K50	Not used
	R5704, R5709	Not used	RS1/16S0R0J
	R5705, R5708, R5746	RS1/16S0R0J	Not used
	R5706	RS1/16S822J	Not used
	R5718	RS1/16S104J	Not used
	CN5706 3 PIN CONNECTOR	S3B-EH	Not used

■ PCB PARTS LIST FOR VSX-2016AV-S/HYXJ5 UNLESS OTHER WISE NOTED

Mark	No.	Description	Part No.
		MAIN ASSY (AWK7889)	
		MISCELLANEOUS	
	J 663	JUMPER WIRE	D20PDD0605E
		A AUDIO IN ASSY	
		MISCELLANEOUS	
	IC 501	(A,262,69) 8CH E-VOL	R2S15205FP
	IC 701	(A,205,68) OP-AMP IC	BA4560RF
	IC 702	(A,220,73) OP-AMP IC	BA4560RF
	IC 703	(A,220,56) IC	TC4066BFT
	IC 741	(A,177,68) OP-AMP IC	BA4560RF
	IC 761	(A,191,68) OP-AMP IC	BA4560RF
	IC 781	(A,163,68) OP-AMP IC	BA4560RF
	IC 801	(A,264,170) OP-AMP IC	UPC4570G2
	IC 821	(A,264,139) OP-AMP IC	UPC4570G2
	IC 841	(A,264,155) OP-AMP IC	UPC4570G2
	IC 861	(A,264,123) OP-AMP IC	UPC4570G2
	Q 661	(A,136,78) TRANSISTOR	2SD1858X
	Q 662	(A,136,90) TRANSISTOR	2SB1238X
	Q 701	(A,224,50) TRANSISTOR	UMD2N
	D 591	(B,231,52) DIODE	DAN217U
	⚠D 661	(B,39,52) DIODE	1SR154-400
	⚠D 662	(B,34,52) DIODE	1SR154-400
	⚠D 663	(B,25,52) DIODE	1SR154-400
	⚠D 664	(B,30,52) DIODE	1SR154-400
	D 669	(B,127,75) DIODE	UDZS7R5(B)
	D 670	(B,127,87) DIODE	UDZS7R5(B)
	J 662	(A,85,59) 3P HOUSING WIRE ASSY	ADX7509
	CN501	(A,258,24) 19P PLUG	XKP3069
	CN507	(A,266,24) B TO B CONNECTOR	BTEM20S-1S
	CN509	(A,234,48) 23P PLUG	XKP3071
	CN511	(A,131,47) B TO B CONNECTOR	BTEM20S-1S
	CN512	(A,220,24) 23P PLUG	XKP3071
	CN513	(A,98,48) 23P PLUG	XKP3071
	CN516	(A,39,24) 15P PLUG	XKP3067
	CN520	(A,282,208) 17P SOCKET	XKP3079
	CN521	(A,317,60) PIN JACK (4P)	AKB7172
	CN522	(A,317,88) PIN JACK (4P)	AKB7172
	CN524	(A,317,158) PIN JACK (4P)	AKB7172
	CN525	(A,317,186) PIN JACK (4P)	AKB7172
	CN526	(A,317,214) PIN JACK (4P)	AKB7172
	CN661	(A,26,62) CONNECTOR POST	S10B-PH
	523	(A,317,123) PIN JACK (6P)	AKB7182
	Y 661	AWG14 BOARD IN	ADX7511
	501	(A,150,71) PCB BINDER	VEF1040
	664	(A,46,67) 6P CABLE HOLDER	51048-0600
		RESISTORS	
	R 501	(B,303,54)	RS1/16S331J
	R 502	(B,302,43)	RS1/16S331J
	R 503	(B,302,71)	RS1/16S222J
	R 504	(B,302,64)	RS1/16S222J
	R 505	(B,302,84)	RS1/16S331J
	R 506	(B,302,77)	RS1/16S331J
	R 507	(B,302,97)	RS1/16S331J
	R 508	(B,302,90)	RS1/16S331J
	R 509	(B,302,110)	RS1/16S331J
	R 510	(B,302,103)	RS1/16S331J
	R 511	(B,302,128)	RS1/16S222J
	R 512	(B,302,118)	RS1/16S222J
	R 513	(B,302,142)	RS1/16S331J
	R 514	(B,302,135)	RS1/16S331J
	R 515	(B,302,209)	RS1/16S331J
	R 516	(B,302,202)	RS1/16S331J
	R 517	(B,302,222)	RS1/16S331J
	R 518	(B,302,216)	RS1/16S331J
	R 519	(B,302,155)	RS1/16S222J
	R 520	(B,302,148)	RS1/16S222J
	R 521	(B,302,168)	RS1/16S331J
	R 522	(B,302,161)	RS1/16S331J
	R 523	(B,302,182)	RS1/16S331J
	R 524	(B,302,176)	RS1/16S331J
	R 525	(B,302,195)	RS1/16S331J
	R 526	(B,302,189)	RS1/16S331J
	R 527	(B,309,56)	RS1/16S474J
	R 528	(B,309,51)	RS1/16S474J
	R 529	(B,309,69)	RS1/16S474J
	R 530	(B,309,64)	RS1/16S474J
	R 531	(B,309,84)	RS1/16S474J
	R 532	(B,309,79)	RS1/16S474J
	R 533	(B,309,97)	RS1/16S474J
	R 534	(B,309,92)	RS1/16S474J
	R 535	(B,309,110)	RS1/16S474J
	R 536	(B,309,107)	RS1/16S474J
	R 537	(B,309,128)	RS1/16S474J
	R 538	(B,309,118)	RS1/16S474J
	R 539	(B,309,140)	RS1/16S474J
	R 540	(B,309,134)	RS1/16S474J
	R 541	(B,309,210)	RS1/16S474J
	R 542	(B,309,205)	RS1/16S474J
	R 543	(B,309,223)	RS1/16S474J
	R 544	(B,309,218)	RS1/16S474J
	R 545	(B,309,154)	RS1/16S474J
	R 546	(B,309,149)	RS1/16S474J
	R 547	(B,309,167)	RS1/16S474J
	R 548	(B,309,162)	RS1/16S474J
	R 549	(B,309,182)	RS1/16S474J
	R 550	(B,309,177)	RS1/16S474J
	R 551	(B,309,195)	RS1/16S474J
	R 552	(B,309,190)	RS1/16S474J
	R 561	(A,246,87)	RS1/16S472J
	R 562	(A,244,75)	RS1/16S472J
	R 563	(A,244,58)	RS1/16S102J
	R 564	(A,244,57)	RS1/16S102J
	R 565	(B,268,42)	RS1/16S0R0J
	R 566	(B,275,42)	RS1/16S0R0J
	R 571	(B,256,33)	RS1/16S0R0J
	R 572	(B,234,53)	RS1/16S0R0J
	R 601	(B,222,22)	RS1/16S0R0J
	R 663	(B,133,76)	RS1/16S472J
	R 664	(B,133,88)	RS1/16S472J
	R 665	(B,133,72)	RS1/16S101J
	R 666	(B,133,84)	RS1/16S101J

Mark No.	Description	Part No.
R 701	(A,203,61)	RS1/16S473J
R 702	(A,208,61)	RS1/16S473J
R 703	(B,204,60)	RS1/16S332J
R 704	(B,207,60)	RS1/16S332J
R 705	(B,202,60)	RS1/16S332J
R 706	(B,209,60)	RS1/16S332J
R 707	(B,202,64)	RS1/16S392J
R 708	(B,209,64)	RS1/16S392J
R 709	(B,204,64)	RS1/16S472J
R 710	(B,207,64)	RS1/16S472J
R 711	(B,204,68)	RS1/16S272J
R 712	(B,207,68)	RS1/16S272J
R 713	(B,202,72)	RS1/16S331J
R 714	(B,209,72)	RS1/16S331J
R 715	(B,204,72)	RS1/16S474J
R 716	(B,207,72)	RS1/16S474J
R 719	(B,223,80)	RS1/16S0R0J
R 720	(B,216,80)	RS1/16S0R0J
R 721	(B,223,77)	RS1/16S472J
R 722	(B,216,77)	RS1/16S472J
R 723	(A,226,70)	RS1/16S472J
R 724	(A,213,70)	RS1/16S472J
R 725	(A,226,74)	RS1/16S122J
R 726	(A,213,74)	RS1/16S122J
R 727	(B,223,73)	RS1/16S392J
R 728	(B,216,73)	RS1/16S392J
R 731	(B,225,66)	RS1/16S101J
R 732	(B,214,66)	RS1/16S101J
R 733	(A,226,48)	RS1/16S473J
R 741	(A,175,61)	RS1/16S473J
R 742	(A,180,61)	RS1/16S473J
R 743	(B,176,60)	RS1/16S272J
R 744	(B,179,60)	RS1/16S332J
R 745	(B,174,60)	RS1/16S272J
R 746	(B,181,60)	RS1/16S562J
R 747	(B,174,64)	RS1/16S272J
R 748	(B,181,64)	RS1/16S393J
R 749	(B,176,64)	RS1/16S392J
R 750	(B,179,64)	RS1/16S182J
R 751	(B,176,68)	RS1/16S122J
R 752	(B,179,68)	RS1/16S362J
R 753	(B,174,72)	RS1/16S221J
R 754	(B,181,72)	RS1/16S121J
R 757	(B,172,79)	RS1/16S101J
R 758	(B,183,79)	RS1/16S101J
R 761	(A,189,61)	RS1/16S473J
R 762	(A,194,61)	RS1/16S473J
R 763	(B,190,60)	RS1/16S272J
R 764	(B,193,60)	RS1/16S272J
R 765	(B,188,60)	RS1/16S272J
R 766	(B,195,60)	RS1/16S272J
R 767	(B,188,64)	RS1/16S272J
R 768	(B,195,64)	RS1/16S272J
R 769	(B,190,64)	RS1/16S392J
R 770	(B,193,64)	RS1/16S392J
R 771	(B,190,68)	RS1/16S122J
R 772	(B,193,68)	RS1/16S122J
R 773	(B,188,72)	RS1/16S221J
R 774	(B,195,72)	RS1/16S221J
R 777	(B,186,79)	RS1/16S101J
R 778	(B,197,79)	RS1/16S101J
R 781	(A,161,61)	RS1/16S473J
R 782	(A,166,61)	RS1/16S473J
R 783	(B,162,60)	RS1/16S272J
R 784	(B,165,60)	RS1/16S272J
R 785	(B,160,60)	RS1/16S272J
R 786	(B,167,60)	RS1/16S272J
R 787	(B,160,64)	RS1/16S272J
R 788	(B,167,64)	RS1/16S272J
R 789	(B,162,64)	RS1/16S392J
R 790	(B,165,64)	RS1/16S392J
R 791	(B,162,68)	RS1/16S122J
R 792	(B,165,68)	RS1/16S122J
R 793	(B,160,72)	RS1/16S221J
R 794	(B,167,72)	RS1/16S221J
R 797	(B,158,79)	RS1/16S101J
R 798	(B,169,79)	RS1/16S101J
R 801	(B,262,165)	RS1/16S223J
R 802	(B,262,176)	RS1/16S223J
R 805	(A,266,165)	RS1/16S682J
R 806	(A,266,175)	RS1/16S682J
R 807	(A,269,168)	RS1/16S331J
R 808	(A,269,173)	RS1/16S331J
R 811	(A,263,165)	RS1/16S153J
R 812	(A,263,175)	RS1/16S153J
R 815	(B,262,194)	RS1/16S104J
R 816	(B,262,186)	RS1/16S104J
R 821	(B,262,134)	RS1/16S223J
R 822	(B,262,144)	RS1/16S223J
R 825	(A,266,134)	RS1/16S682J
R 826	(A,266,144)	RS1/16S682J
R 827	(A,269,137)	RS1/16S331J
R 828	(A,269,142)	RS1/16S331J
R 831	(A,263,134)	RS1/16S153J
R 832	(A,263,144)	RS1/16S153J
R 835	(B,275,194)	RS1/16S104J
R 836	(B,275,186)	RS1/16S104J
R 841	(B,262,149)	RS1/16S223J
R 842	(B,262,160)	RS1/16S223J
R 845	(A,266,150)	RS1/16S682J
R 846	(A,266,160)	RS1/16S682J
R 847	(A,269,152)	RS1/16S331J
R 848	(A,269,157)	RS1/16S331J
R 851	(A,263,150)	RS1/16S153J
R 852	(A,263,160)	RS1/16S153J
R 855	(B,269,194)	RS1/16S104J
R 856	(B,269,186)	RS1/16S104J
R 861	(B,262,118)	RS1/16S223J
R 862	(B,262,129)	RS1/16S223J
R 865	(A,266,118)	RS1/16S682J
R 866	(A,266,128)	RS1/16S682J
R 867	(A,269,121)	RS1/16S331J
R 868	(A,269,126)	RS1/16S331J
R 871	(A,263,118)	RS1/16S153J
R 872	(A,263,128)	RS1/16S153J
R 875	(B,282,194)	RS1/16S104J
R 876	(B,282,186)	RS1/16S104J
R 883	(A,253,116)	RS1/16S0R0J

Mark	No.	Description	Part No.
CAPACITORS			
	C 501	(B,307,56)	CCSRCH101J50
	C 502	(B,307,51)	CCSRCH101J50
A	C 503	(B,307,69)	CCSRCH221J50
	C 504	(B,307,64)	CCSRCH221J50
	C 505	(B,307,84)	CCSRCH101J50
	C 506	(B,307,79)	CCSRCH101J50
	C 507	(B,307,97)	CCSRCH101J50
	C 508	(B,307,92)	CCSRCH101J50
	C 509	(B,307,110)	CCSRCH101J50
	C 510	(B,307,107)	CCSRCH101J50
	C 511	(B,307,128)	CCSRCH221J50
	C 512	(B,307,118)	CCSRCH221J50
	C 513	(B,307,140)	CCSRCH101J50
B	C 514	(B,307,134)	CCSRCH101J50
	C 515	(B,307,210)	CCSRCH101J50
	C 516	(B,307,205)	CCSRCH101J50
	C 517	(B,307,223)	CCSRCH101J50
	C 518	(B,307,218)	CCSRCH101J50
	C 519	(B,307,154)	CCSRCH221J50
	C 520	(B,307,149)	CCSRCH221J50
	C 521	(B,307,167)	CCSRCH101J50
	C 522	(B,307,162)	CCSRCH101J50
	C 523	(B,307,182)	CCSRCH101J50
	C 524	(B,307,177)	CCSRCH101J50
C	C 525	(B,307,195)	CCSRCH101J50
	C 526	(B,307,190)	CCSRCH101J50
	C 527	(B,297,49)	CCSRCH151J50
	C 528	(B,298,44)	CCSRCH151J50
	C 531	(B,297,83)	CCSRCH151J50
	C 532	(B,298,79)	CCSRCH151J50
	C 533	(B,297,96)	CCSRCH151J50
	C 534	(B,298,92)	CCSRCH151J50
	C 535	(B,297,109)	CCSRCH151J50
	C 536	(B,298,105)	CCSRCH151J50
	C 539	(B,297,141)	CCSRCH151J50
D	C 540	(B,298,137)	CCSRCH151J50
	C 541	(B,297,209)	CCSRCH101J50
	C 542	(B,298,203)	CCSRCH101J50
	C 543	(B,300,222)	CCSRCH101J50
	C 544	(B,300,216)	CCSRCH101J50
	C 547	(B,297,167)	CCSRCH151J50
	C 548	(B,298,163)	CCSRCH151J50
	C 549	(B,297,182)	CCSRCH101J50
	C 550	(B,298,177)	CCSRCH101J50
	C 551	(B,297,194)	CCSRCH101J50
E	C 552	(B,297,190)	CCSRCH101J50
	C 553	(A,300,51) ELECT. CAPACITOR	CEAT470M25
	C 554	(A,300,42) ELECT. CAPACITOR	CEAT470M25
	C 555	(A,300,73)	CEAT100M50
	C 556	(A,300,64)	CEAT100M50
	C 557	(A,300,86) ELECT. CAPACITOR	CEAT470M25
	C 558	(A,300,77) ELECT. CAPACITOR	CEAT470M25
	C 559	(A,300,99) ELECT. CAPACITOR	CEAT470M25
	C 560	(A,300,90) ELECT. CAPACITOR	CEAT470M25
	C 561	(A,300,112) ELECT. CAPACITOR	CEAT470M25
F	C 562	(A,300,103) ELECT. CAPACITOR	CEAT470M25
	C 563	(A,300,131)	CEAT100M50
	C 564	(A,300,120)	CEAT100M50
	C 565	(A,300,144) ELECT. CAPACITOR	CEAT470M25
	C 566	(A,300,135) ELECT. CAPACITOR	CEAT470M25
	C 567	(A,300,210) ELECT. CAPACITOR	CEAT470M25
	C 568	(A,300,201) ELECT. CAPACITOR	CEAT470M25
	C 569	(A,293,210) ELECT. CAPACITOR	CEAT470M25
	C 570	(A,293,201) ELECT. CAPACITOR	CEAT470M25
	C 571	(A,300,157)	CEAT100M50
	C 572	(A,300,148)	CEAT100M50
	C 573	(A,300,170) ELECT. CAPACITOR	CEAT470M25
	C 574	(A,300,161) ELECT. CAPACITOR	CEAT470M25
	C 575	(A,300,184) ELECT. CAPACITOR	CEAT470M25
	C 576	(A,300,175) ELECT. CAPACITOR	CEAT470M25
	C 577	(A,300,197) ELECT. CAPACITOR	CEAT470M25
	C 578	(A,300,188) ELECT. CAPACITOR	CEAT470M25
	C 579	(A,270,87)	CEAT101M16
	C 580	(A,268,95)	CEAT101M16
	C 581	(A,264,87)	CEAT101M16
	C 582	(A,262,95)	CEAT101M16
	C 583	(A,258,87)	CEAT101M16
	C 584	(A,256,95)	CEAT101M16
	C 585	(A,252,87)	CEAT101M16
	C 586	(A,250,95)	CEAT101M16
	C 587	(A,247,84)	CKSRYB473K50
	C 588	(A,246,84)	CKSRYB154K10
	C 589	(A,244,84)	CKSRYB223K50
	C 590	(A,247,76)	CKSRYB473K50
	C 591	(A,247,74)	CKSRYB154K10
	C 592	(A,244,73)	CKSRYB223K50
	C 593	(A,248,59)	CCSRCH101J50
	C 594	(A,247,59)	CCSRCH101J50
	C 595	(A,247,79)	CKSRYB103K50
	C 596	(A,247,78)	CKSRYB103K50
	C 599	(A,269,35)	CEJQ100M25
	C 600	(A,274,35)	CEJQ100M25
	C 641	(B,309,114)	CKSRYB103K50
	C 642	(B,309,88)	CKSRYB103K50
	C 643	(B,309,214)	CKSRYB103K50
	C 644	(B,309,158)	CKSRYB103K50
	C 645	(B,309,186)	CKSRYB103K50
	C 661	(A,50,48) ELECT. CAPACITOR	CEAT222M25
	C 662	(A,64,48) ELECT. CAPACITOR	CEAT222M25
	C 673	(A,130,76)	CEAT2R2M50
	C 674	(A,130,86)	CEAT2R2M50
	C 675	(A,143,76)	CEAT100M50
	C 676	(A,143,86)	CEAT100M50
	C 701	(A,202,53)	CEAT2R2M50
	C 702	(A,208,53)	CEAT2R2M50
	C 703	(A,203,62)	CCSRCH471J50
	C 704	(A,208,62)	CCSRCH471J50
	C 705	(A,203,64)	CCSRCH331J50
	C 706	(A,208,64)	CCSRCH331J50
	C 707	(B,202,68)	CCSRCH391J50
	C 708	(B,209,68)	CCSRCH391J50
	C 709	(A,202,76)	CEAT100M50
	C 710	(A,209,76)	CEAT100M50
	C 713	(A,223,69)	CEAT100M50
	C 714	(A,216,69)	CEAT100M50

Mark	No.		Description	Part No.
C	717	(A,208,72)		CKSRYB103K50
C	718	(A,203,72)		CKSRYB103K50
C	719	(A,217,77)		CKSRYB104K50
C	720	(A,222,77)		CKSRYB104K50
C	721	(A,224,53)		CKSRYB103K50
C	722	(A,215,56)		CKSRYB103K50
C	741	(A,174,53)		CEAT2R2M50
C	742	(A,180,53)		CEAT2R2M50
C	743	(A,175,62)		CCSRCH331J50
C	744	(A,180,62)		CKSRYB223K50
C	745	(A,175,64)		CCSRCH331J50
C	746	(A,180,64)		CKSRYB103K50
C	747	(B,174,68)		CCSRCH471J50
C	748	(B,181,68)		CKSRYB682K50
C	749	(A,174,76)		CEAT100M50
C	750	(A,181,76)		CEAT100M50
C	751	(B,176,79)		CKSRYB472K50
C	752	(B,179,79)		CKSRYB472K50
C	753	(A,180,72)		CKSRYB103K50
C	754	(A,175,72)		CKSRYB103K50
C	761	(A,188,53)		CEAT2R2M50
C	762	(A,194,53)		CEAT2R2M50
C	763	(A,189,62)		CCSRCH331J50
C	764	(A,194,62)		CCSRCH331J50
C	765	(A,189,64)		CCSRCH331J50
C	766	(A,194,64)		CCSRCH331J50
C	767	(B,188,68)		CCSRCH471J50
C	768	(B,195,68)		CCSRCH471J50
C	769	(A,188,76)		CEAT100M50
C	770	(A,195,76)		CEAT100M50
C	771	(B,190,79)		CKSRYB472K50
C	772	(B,193,79)		CKSRYB472K50
C	773	(A,194,72)		CKSRYB103K50
C	774	(A,189,72)		CKSRYB103K50
C	781	(A,160,53)		CEAT2R2M50
C	782	(A,166,53)		CEAT2R2M50
C	783	(A,161,62)		CCSRCH331J50
C	784	(A,166,62)		CCSRCH331J50
C	785	(A,161,64)		CCSRCH331J50
C	786	(A,166,64)		CCSRCH331J50
C	787	(B,160,68)		CCSRCH471J50
C	788	(B,167,68)		CCSRCH471J50
C	789	(A,160,76)		CEAT100M50
C	790	(A,167,76)		CEAT100M50
C	791	(B,162,79)		CKSRYB472K50
C	792	(B,165,79)		CKSRYB472K50
C	793	(A,166,72)		CKSRYB103K50
C	794	(A,161,72)		CKSRYB103K50
C	801	(A,253,108)		CEAT4R7M50
C	802	(A,253,101)		CEAT4R7M50
C	805	(A,263,164)		CCSRCH101J50
C	806	(A,263,176)		CCSRCH101J50
C	807	(A,260,192)	ELECT. CAPACITOR	CEAT470M25
C	808	(A,260,185)	ELECT. CAPACITOR	CEAT470M25
C	809	(A,260,168)		CKSRYB103K50
C	810	(A,260,173)		CKSRYB103K50
C	821	(A,265,108)		CEAT4R7M50
C	822	(A,265,101)		CEAT4R7M50
C	825	(A,263,133)		CCSRCH101J50
C	826	(A,263,145)		CCSRCH101J50
C	827	(A,273,192)	ELECT. CAPACITOR	CEAT470M25
C	828	(A,273,185)	ELECT. CAPACITOR	CEAT470M25
C	829	(A,260,137)		CKSRYB103K50
C	830	(A,260,142)		CKSRYB103K50
C	841	(A,259,108)		CEAT4R7M50
C	842	(A,259,101)		CEAT4R7M50
C	845	(A,263,148)		CCSRCH101J50
C	846	(A,263,161)		CCSRCH101J50
C	847	(A,266,192)	ELECT. CAPACITOR	CEAT470M25
C	848	(A,266,185)	ELECT. CAPACITOR	CEAT470M25
C	849	(A,260,152)		CKSRYB103K50
C	850	(A,260,157)		CKSRYB103K50
C	861	(A,271,108)		CEAT4R7M50
C	862	(A,271,101)		CEAT4R7M50
C	865	(A,263,117)		CCSRCH101J50
C	866	(A,263,129)		CCSRCH101J50
C	867	(A,279,192)	ELECT. CAPACITOR	CEAT470M25
C	868	(A,279,185)	ELECT. CAPACITOR	CEAT470M25
C	869	(A,260,121)		CKSRYB103K50
C	870	(A,260,126)		CKSRYB103K50

B 12V-REG ASSY

MISCELLANEOUS

IC	661	(A,12,90)	REGULATOR IC	NJM78M12FA
IC	662	(A,39,90)	REGULATOR IC	NJM79M12FA
D	665	(B,28,90)	CHIP DIODE	RB501V-40
D	666	(B,56,88)	CHIP DIODE	RB501V-40
	663	(A,46,77)	6P CABLE HOLDER	51048-0600

CAPACITORS

C	667	(B,11,86)		CKSRYB103K50
C	668	(B,39,86)		CKSRYB103K50
C	669	(A,25,92)		CEAT221M25
C	670	(A,52,92)		CEAT221M25

C MAIN CONTROL ASSY)

MISCELLANEOUS

IC	101	(A,150,186)	CPU	PEG116A
IC	102	(A,175,187)	FLASH ROM	AYW7121
IC	103	(A,114,172)	LOGIC IC	CD4094BPW
IC	104	(A,127,188)	RESET IC	BU4842F
IC	105	(A,209,126)	LOGIC IC	CD4094BPW
IC	106	(A,126,200)	LOGIC IC	SN74AHCT08PW
IC	107	(A,101,131)	IC	TC74VHCT125AFTS1
IC	108	(A,99,165)	LOGIC IC	SN74LV244ATPW
IC	109	(A,123,174)	LOGIC IC	SN74AHCT32PW
IC	251	(A,110,192)	RDS DECORDER IC	LC72725M
IC	301	(A,157,130)	CPU	PEG117A
IC	302	(A,184,132)	FLASH ROM	AYW7125
IC	303	(A,127,123)	LOGIC IC	CD4094BPW
IC	304	(A,95,113)	IC	TC74VHCT125AFTS1
IC	305	(A,130,139)	LOGIC IC	SN74AHC02PW
IC	306	(A,94,131)	LOGIC IC	SN74LV125APW
IC	307	(A,160,210)	LOGIC IC	SN74AHC08PW
IC	308	(A,114,132)	LOGIC IC	SN74LV244APW
⚠IC	310	(A,197,141)	IC	NJM2391DL1-33
Q	101	(B,106,182)	TRANSISTOR	DTC143TK

Mark	No.		Description	Part No.
	Q	103 (B,137,183)	CHIP TR (DUAL)	RN2901
	Q	104 (A,120,194)	CHIP TR (PNP X 2)	UMB1N
	Q	105 (B,189,204)	CHIP TR (PNP X 2)	UMB1N
A	Q	106 (B,190,196)	CHIP TR (PNP X 2)	UMB1N
	Q	107 (B,93,148)	TRANSISTOR	RT1N241M
	Q	108 (B,94,142)	CHIP TR (PNP X 2)	UMB1N
	Q	109 (A,98,179)	DIGITAL TR (SC-70)	RT1P241M
	Q	110 (A,104,179)	DIGITAL TR (SC-70)	RT1P241M
	Q	301 (B,215,147)	TRANSISTOR	2SA1036K
	Q	302 (B,212,137)	TRANSISTOR	RT1N241M
	D	101 (B,135,174)	DIODE	DAN202U
	D	102 (A,203,194)	DIODE	DAN202U
	D	103 (A,189,188)	DIODE	1SS355
	D	104 (B,186,185)	DIODE	DAP202U
B	D	105 (B,186,189)	DIODE	DAN202U
	D	106 (B,189,212)	DIODE	UDZS5R1(B)
	D	107 (A,118,189)	DIODE	DAN202U
	D	108 (A,200,193)	DIODE	RB520S-30
	D	109 (A,177,168)	CHIP DIODE	RB501V-40
	D	114 (B,101,144)	DIODE	1SS355
	D	116 (A,174,169)	CHIP DIODE	RB501V-40
	D	291 (A,30,137)	DIODE	1SS355
	D	301 (B,214,141)	DIODE	DAN202U
	D	302 (A,190,119)	CHIP DIODE	RB501V-40
	L	101 (B,194,178)	CHIP SOLID	ATL7002
C	L	102 (B,200,205)	CHIP SOLID	ATL7002
	L	281 (B,31,202)	CHIP SOLID	QTL1013
	L	291 (A,26,138)	INDUCTOR	CTF1473
	L	292 (A,26,137)	INDUCTOR	CTF1473
	L	293 (A,26,135)	INDUCTOR	CTF1473
	L	294 (A,26,134)	INDUCTOR	CTF1473
	L	295 (A,29,144)	INDUCTOR	CTF1473
	L	301 (A,181,152)	CHIP SOLID	QTL1013
	L	381 (B,74,189)	CHIP SOLID	QTL1013
	JA	281 (A,17,170)	OPT. LINK IN	AKS7001
D	JA	282 (A,17,183)	OPT. LINK IN	AKS7001
	JA	283 (A,17,197)	OPT. LINK IN	AKS7001
	JA	284 (A,17,210)	OPT. LINK OUT	AKS7002
	JA	291 (A,9,131)	MINI JACK (4P) /W SW	XKN3015
	JA	292 (A,11,143)	JACK	RKN1004
	KN	281 (A,13,153)	SCREW PLATE	VNE1948
	X	101 (A,133,187)	CERAMIC	XSS3004
	X	251 (A,107,201)	CRYSTAL (4.332M)	ASS7004
	X	301 (A,144,131)	CERAMIC	XSS3004
	CN	101 (A,208,215)	CONNECTOR	CKS3394
	CN	102 (A,223,129)	9P JUMPER CONNECTOR	52147-0910
E	CN	103 (A,197,187)	CONNECTOR	CKS3384
	CN	104 (A,60,177)	11P PLUG	XKP3065
	CN	106 (A,111,212)	23P SOCKET	XKP3082
	CN	107 (A,31,177)	13P PLUG	XKP3066
	CN	108 (A,29,153)	13P PLUG	XKP3066
	CN	109 (A,55,153)	11P PLUG	XKP3065
	CN	110 (A,56,130)	11P PLUG	XKP3065
	CN	111 (A,28,130)	13P PLUG	XKP3066
	CN	112 (A,64,102)	23P SOCKET	XKP3082
	CN	113 (A,94,180)	CONNECTOR	CKS3382
	CN	281 (A,33,209)	23P PLUG	XKP3071
F	CN	301 (A,170,98)	B TO B CONNCTOR	BTEM20P-1R
	CN	302 (A,199,102)	23P SOCKET	XKP3082
		101 (A,218,170)	PCB BINDER	VEF1040
		102 (A,218,163)	PCB BINDER	VEF1040

RESISTORS

R	101 (A,137,198)		RAB4C101J
R	102 (A,135,192)		RS1/16S101J
R	103 (A,132,168)		RAB4C101J
R	104 (A,137,172)		RAB4C101J
R	105 (A,142,169)		RAB4C101J
R	106 (A,147,168)		RAB4C101J
R	107 (A,158,169)		RAB4C101J
R	108 (A,163,171)		RAB4C101J
R	109 (A,152,206)		RAB4C101J
R	110 (A,135,190)		RS1/16S101J
R	111 (A,131,199)		RS1/16S104J
R	112 (A,134,196)		RS1/16S101J
R	113 (B,131,205)		RS1/16S101J
R	114 (A,134,194)		RS1/16S101J
R	115 (B,147,200)		RS1/16S101J
R	117 (A,131,193)		RS1/16S103J
R	118 (B,151,184)		RS1/16S512J
R	120 (A,131,188)		RS1/16S101J
R	121 (A,129,188)		RS1/16S104J
R	123 (B,147,186)		RS1/16S473J
R	124 (A,129,183)		RS1/16S101J
R	125 (A,130,182)		RS1/16S101J
R	126 (A,130,180)		RS1/16S101J
R	127 (A,131,179)		RS1/16S101J
R	133 (A,132,183)		RS1/16S104J
R	134 (B,147,182)		RS1/16S104J
R	136 (B,143,174)		RS1/16S222J
R	137 (B,142,160)		RS1/16S474J
R	138 (B,152,171)		RS1/16S104J
R	139 (A,151,168)		RS1/16S473J
R	140 (A,153,169)		RS1/16S473J
R	141 (B,138,164)		RS1/16S101J
R	142 (A,156,169)		RS1/16S104J
R	144 (A,167,168)		RS1/16S473J
R	145 (A,166,174)		RS1/16S101J
R	147 (B,172,198)		RS1/16S473J
R	151 (A,142,203)		RS1/16S473J
R	152 (A,143,203)		RS1/16S473J
R	154 (A,139,203)		RS1/16S473J
R	155 (A,148,208)		RS1/16S222J
R	157 (B,176,198)		RS1/16S104J
R	160 (A,138,203)		RS1/16S101J
R	161 (B,200,201)		RS1/16S0R0J
R	162 (B,195,213)		RS1/16S223J
R	164 (B,184,180)		RS1/16S105J
R	166 (B,188,185)		RS1/16S105J
R	169 (A,125,180)		RS1/16S473J
R	170 (A,115,167)		RS1/16S473J
R	178 (B,105,186)		RS1/16S470J
R	179 (B,96,144)		RS1/16S104J
R	180 (A,209,132)		RAB4C473J
R	181 (A,105,132)		RS1/16S101J
R	182 (A,102,137)		RS1/16S182J
R	183 (A,101,137)		RS1/16S104J
R	184 (A,99,137)		RS1/16S104J

Mark No.	Description	Part No.
R 185	(A,101,122)	RS1/16S101J
R 186	(A,96,125)	RS1/16S104J
R 187	(A,103,125)	RS1/16S0R0J
R 188	(A,122,180)	RS1/16S0R0J
R 189	(A,96,171)	RS1/16S104J
R 190	(A,98,171)	RS1/16S104J
R 191	(A,101,171)	RS1/16S104J
R 192	(A,100,171)	RS1/16S104J
R 193	(A,91,125)	RS1/16S104J
R 194	(A,117,179)	RS1/16S101J
R 251	(A,117,198)	RS1/16S473J
R 252	(A,104,195)	RS1/16S102J
R 253	(A,106,184)	RS1/16S102J
R 254	(A,106,186)	RS1/16S102J
R 281	(B,24,170)	RS1/16S101J
R 282	(B,23,183)	RS1/16S101J
R 283	(B,24,197)	RS1/16S101J
R 301	(A,145,137)	RAB4C101J
R 302	(A,135,134)	RAB4C101J
R 303	(A,135,125)	RAB4C101J
R 304	(A,139,127)	RS1/16S473J
R 305	(A,142,120)	RAB4C101J
R 306	(B,160,129)	RS1/16S101J
R 307	(A,156,142)	RAB4C101J
R 308	(A,146,142)	RAB4C101J
R 309	(A,154,119)	RS1/16S101J
R 310	(A,139,129)	RS1/16S473J
R 311	(B,153,139)	RS1/16S472J
R 312	(A,140,140)	RS1/16S473J
R 313	(A,135,144)	RS1/16S101J
R 314	(A,138,138)	RS1/16S101J
R 315	(A,125,135)	RS1/16S101J
R 316	(A,137,140)	RS1/16S473J
R 317	(B,147,134)	RS1/16S473J
R 318	(B,147,113)	RS1/16S473J
R 319	(B,145,113)	RS1/16S473J
R 322	(B,155,129)	RS1/16S101J
R 323	(B,157,129)	RS1/16S101J
R 324	(B,168,114)	RS1/16S101J
R 325	(B,164,114)	RS1/16S473J
R 326	(B,161,119)	RS1/16S473J
R 327	(B,166,118)	RS1/16S473J
R 328	(A,164,117)	RS1/16S101J
R 329	(A,166,117)	RS1/16S101J
R 330	(A,165,120)	RS1/16S101J
R 334	(B,158,140)	RS1/16S473J
R 335	(B,163,129)	RS1/16S101J
R 336	(B,151,137)	RS1/16S101J
R 337	(B,147,136)	RS1/16S473J
R 340	(B,180,142)	RS1/16S473J
R 344	(B,122,157)	RS1/16S104J
R 345	(A,125,167)	RS1/16S104J
R 346	(A,100,116)	RS1/16S101J
R 347	(B,211,147)	RS1/16S473J
R 348	(B,212,143)	RS1/16S222J
R 349	(B,110,132)	RS1/16S104J
R 350	(B,104,136)	RS1/16S104J
R 351	(B,112,132)	RS1/16S104J
R 352	(B,108,146)	RS1/16S104J
R 353	(A,111,125)	RS1/16S104J
R 354	(A,110,125)	RS1/16S104J
R 355	(B,115,129)	RS1/16S104J
R 357	(B,90,139)	RS1/16S104J
R 361	(B,163,111)	RS1/16S331J
R 362	(B,151,113)	RS1/16S331J
R 363	(B,138,110)	RS1/16S331J
R 364	(B,171,114)	RS1/16S331J
R 385	(B,92,107)	RS1/16S0R0J

CAPACITORS

C 101	(B,195,174)	CKSRYB103K50
C 102	(A,197,176)	CEAT102M10
C 103	(B,192,177)	CKSRYB103K50
C 104	(A,142,198)	CKSRYB104K16
C 106	(A,125,190)	CKSRYB105K10
C 108	(A,137,186)	CKSRYB104K16
C 110	(B,143,184)	CKSRYB472K50
C 112	(A,142,176)	CKSRYB104K16
C 113	(B,162,188)	CKSRYB104K16
C 115	(A,174,200)	CKSRYB104K16
C 118	(A,110,176)	CKSRYB104K16
C 119	(A,185,210)	CEAT100M50
C 120	(B,184,183)	CKSRYB473K25
C 121	(B,191,185)	CKSRYB473K25
C 125	(A,100,189)	CEAT471M6R3
C 126	(A,205,127)	CKSRYB104K16
C 127	(A,122,202)	CKSRYB104K16
C 128	(A,97,131)	CKSRYB104K16
C 129	(A,94,166)	CKSRYB104K16
C 130	(A,120,174)	CKSRYB104K16
C 251	(A,111,182)	CEAT100M50
C 253	(A,114,187)	CCSRCH561J50
C 254	(A,118,205)	CEAT101M10
C 255	(A,112,197)	CKSRYB102K50
C 256	(B,112,204)	CCSRCH270J50
C 257	(B,109,204)	CCSRCH270J50
C 260	(A,108,185)	CKSRYB472K50
C 281	(B,23,175)	CKSRYB104K16
C 282	(B,23,187)	CKSRYB104K16
C 283	(B,22,203)	CKSRYB104K16
C 284	(B,22,211)	CKSRYB104K16
C 285	(A,31,198)	CEAT101M10
C 293	(B,24,159)	CKSRYB104K16
C 301	(A,208,143)	CEAT102M10
C 302	(B,204,144)	CKSRYB104K16
C 304	(A,197,131)	CEAT331M10
C 305	(A,143,127)	CKSRYB104K16
C 307	(A,172,130)	CKSRYB104K16
C 309	(A,152,142)	CKSRYB104K16
C 311	(A,184,145)	CKSRYB104K16
C 314	(A,123,124)	CKSRYB104K16
C 315	(A,91,113)	CKSRYB104K16
C 316	(A,126,140)	CKSRYB104K16
C 317	(A,90,132)	CKSRYB104K16
C 318	(A,164,209)	CKSRYB104K16
C 319	(A,110,135)	CKSRYB104K16

Mark	No.	Description	Part No.

D GUARD-C ASSY

GUARD-C Assy has no service part.

E GUARD-F ASSY

MISCELLANEOUS

	921	(A,245,238) PCB BINDER	VEF1040

G DSP ASSY

MISCELLANEOUS

	IC 101	(A,65,37) DSP IC	ADSP-21266SKSTZ-2D
	IC 103	(B,43,38) LOGIC IC (LATCHES)	TC74VHC573FS1
	IC 104	(B,41,21) LOGIC IC (LATCHES)	TC74VHC573FS1
	IC 105	(A,16,16) 2 TO 4 LINE DECODER	TC7W139FU
	IC 106	(A,15,37) FLASH ROM	AYW7128
	IC 107	(A,33,49) SRAM (4M)	CY7C1049C3312VXC
	IC 109	(A,8,19) 1 CHIP OR GATE	TC7SH32FUS1
	IC 201	(A,113,37) DSP IC	DSPC56371AF180
	IC 291	(A,143,55) IC	TC74VHC08FTS1
	IC 301	(A,191,36) DA I/F TRANCEIVER	AK4114VQ
	IC 401	(A,154,28) AUDIO 8CH DAC	AK4359VF
	IC 481	(A,170,28) AD CONVERTER IC	AK5358ET
	IC 551	(A,98,25) LOGIC IC	TC7WHU04FU
	IC 651	(A,141,47) IC	TC74VHC157FTS1
⚠	IC 901	(B,83,45) REGULATOR IC	MM1663DT
⚠	IC 902	(A,82,16) REGULATOR IC	BD7820FP
⚠	IC 903	(B,203,16) REGULATOR IC	BD7802FP
⚠	IC 904	(A,176,25) LDO REGULATOR	BD00KA5WFP
	D 401	(B,164,18) DIODE	MA152WA
	D 402	(A,166,19) DIODE	MA152WK
	D 906	(B,73,23) DIODE	RB160L-40
	L 101	(A,73,57) CHIP SOLID INDUCTOR	QTL1013
	L 102	(A,67,18) CHIP SOLID INDUCTOR	ATL7002
	L 104	(B,35,34) CHIP SOLID INDUCTOR	QTL1013
	L 105	(B,32,17) CHIP SOLID INDUCTOR	QTL1013
	L 106	(A,13,20) CHIP SOLID INDUCTOR	QTL1013
	L 107	(A,19,23) CHIP SOLID INDUCTOR	QTL1013
	L 108	(B,32,54) CHIP SOLID INDUCTOR	QTL1013
	L 201	(B,105,32) CHIP SOLID INDUCTOR	QTL1013
	L 202	(A,127,34) CHIP SOLID INDUCTOR	ATL7002
	L 203	(A,98,18) CHIP SOLID INDUCTOR	ATL7002
	L 291	(A,149,55) CHIP SOLID INDUCTOR	QTL1013
	L 301	(B,188,48) CHIP SOLID INDUCTOR	QTL1013
	L 302	(A,182,36) CHIP SOLID INDUCTOR	QTL1013
	L 305	(A,202,29) CHIP SOLID INDUCTOR	QTL1013
	L 401	(B,146,32) CHIP SOLID INDUCTOR	QTL1013
	L 481	(B,163,30) CHIP SOLID INDUCTOR	QTL1013
	L 482	(A,175,35) CHIP SOLID INDUCTOR	QTL1013
	L 551	(A,101,23) CHIP SOLID INDUCTOR	QTL1013
	L 651	(A,147,50) CHIP SOLID INDUCTOR	QTL1013
	L 901	(B,191,19) CHIP SOLID INDUCTOR	ATL7002
	L 902	(B,187,19) CHIP SOLID INDUCTOR	ATL7002
	L 903	(B,179,19) CHIP SOLID INDUCTOR	ATL7002
	JA 351	(A,225,22) JACK	AKB7131
	X 301	(A,190,25) CRYSTAL RESONATOR	XSS3003
	X 551	(A,91,28) CRYSTAL RESONATOR	VSS1171
	CN301	(A,185,49) 10P CONNECTOR	VKN1414
	CN402	(A,165,14) 19P SOCKET	XKP3080
	CN801	(A,124,60) 26P PLUG	AKP7208
	CN901	(A,173,11) B TO B CONNCTOR	BTEM20P-1R
	CN951	(A,128,14) 23P SOCKET	XKP3083

RESISTORS

	R 101	(A,44,45)	RAB4C472J
	R 103	(A,46,39)	RS1/16S101J
	R 104	(A,46,38)	RS1/16S472J
	R 105	(A,46,35)	RAB4C470J
	R 106	(A,50,24)	RAB4C470J
	R 107	(A,49,21)	RS1/16S470J
	R 108	(A,52,17)	RS1/16S470J
	R 109	(A,54,18)	RS1/16S470J
	R 110	(A,57,18)	RAB4C470J
	R 111	(A,62,18)	RAB4C470J
	R 112	(A,72,19)	RAB4C220J
	R 113	(A,84,31)	RAB4C101J
	R 114	(B,75,34)	RS1/16S220J
	R 115	(B,79,34)	RS1/16S220J
	R 116	(B,75,38)	RS1/16S101J
	R 117	(B,77,37)	RS1/16S101J
	R 118	(A,80,40)	RS1/16S101J
	R 119	(B,75,44)	RS1/16S472J
	R 120	(B,77,44)	RS1/16S472J
	R 122	(B,63,53)	RS1/16S101J
	R 125	(B,69,49)	RS1/16S101J
	R 127	(B,66,48)	RS1/16S101J
	R 129	(B,64,48)	RS1/16S101J
	R 131	(B,62,48)	RS1/16S101J
	R 132	(B,62,43)	RS1/16S100J
	R 135	(B,52,52)	RS1/16S472J
	R 136	(B,57,49)	RS1/16S101J
	R 137	(B,81,34)	RS1/16S101J
	R 145	(A,41,41)	RAB4C470J
	R 146	(A,41,29)	RAB4C470J
	R 147	(B,27,15)	RS1/16S470J
	R 148	(A,41,16)	RAB4C470J
	R 149	(A,14,20)	RS1/16S470J
	R 150	(A,16,20)	RS1/16S470J
	R 153	(A,8,21)	RS1/16S470J
	R 154	(A,9,14)	RS1/16S472J
	R 155	(B,54,52)	RS1/16S472J
	R 156	(B,50,52)	RS1/16S472J
	R 201	(A,116,48)	RAB4C101J
	R 202	(B,120,40)	RS1/16S103J
	R 203	(B,118,40)	RS1/16S103J
	R 204	(B,116,40)	RS1/16S103J
	R 205	(B,114,40)	RS1/16S103J
	R 207	(B,112,40)	RS1/16S473J
	R 209	(B,112,35)	RS1/16S472J
	R 212	(A,101,36)	RS1/16S473J
	R 214	(B,100,34)	RS1/16S101J
	R 215	(B,104,40)	RS1/16S101J
	R 216	(A,98,33)	RS1/16S101J
	R 217	(A,100,33)	RS1/16S101J

Mark No.	Description	Part No.
R 218	(A,97,33)	RS1/16S101J
R 219	(A,97,36)	RS1/16S472J
R 220	(A,110,27)	RS1/16S101J
R 222	(B,106,24)	RS1/16S101J
R 226	(B,116,34)	RS1/16S473J
R 228	(B,106,28)	RS1/16S472J
R 233	(B,126,35)	RS1/16S470J
R 237	(A,124,39)	RS1/16S470J
R 238	(A,124,43)	RS1/16S470J
R 239	(A,124,44)	RS1/16S470J
R 240	(A,124,46)	RS1/16S470J
R 241	(A,124,47)	RS1/16S470J
R 244	(B,120,46)	RS1/16S470J
R 246	(B,129,48)	RS1/16S470J
R 248	(B,116,26)	RS1/16S470J
R 250	(B,118,26)	RS1/16S470J
R 261	(B,125,30)	RS1/16S222J
R 291	(B,145,54)	RS1/16S220J
R 292	(B,143,54)	RS1/16S220J
R 293	(A,136,54)	RS1/16S220J
R 294	(A,136,52)	RS1/16S220J
R 302	(B,195,49)	RS1/16S104J
R 303	(B,193,49)	RS1/16S104J
R 304	(B,191,49)	RS1/16S104J
R 306	(A,185,45)	RS1/16S0R0J
R 309	(B,184,48)	RS1/16S0R0J
R 311	(A,182,44)	RS1/16S101J
R 312	(A,184,33)	RS1/16S470J
R 313	(A,184,32)	RS1/16S101J
R 314	(A,184,30)	RS1/16S101J
R 315	(A,184,29)	RS1/16S101J
R 317	(A,184,28)	RS1/16S470J
R 321	(A,198,30)	RAB4C101J
R 324	(A,197,26)	RS1/16S103J
R 325	(A,200,38)	RS1/16S1802F
R 326	(A,199,41)	RS1/16S0R0J
R 351	(B,214,16)	RS1/16S750J
R 352	(B,217,30)	RS1/16S750J
R 361	(B,208,28)	RS1/16S100J
R 362	(B,212,30)	RS1/16S100J
R 401	(B,160,36)	RS1/16S470J
R 402	(B,158,36)	RS1/16S470J
R 404	(B,156,30)	RS1/16S101J
R 405	(B,154,30)	RS1/16S101J
R 406	(B,152,30)	RS1/16S101J
R 407	(B,150,33)	RS1/16S4R7J
R 408	(A,143,19)	RS1/16S101J
R 409	(A,145,18)	RS1/16S101J
R 410	(A,148,18)	RS1/16S101J
R 411	(A,150,18)	RS1/16S101J
R 412	(A,153,18)	RS1/16S101J
R 413	(A,155,18)	RS1/16S101J
R 414	(A,158,18)	RS1/16S101J
R 415	(A,160,18)	RS1/16S101J
R 481	(B,170,30)	RS1/16S101J
R 482	(B,172,35)	RS1/16S470J
R 483	(B,169,35)	RS1/16S470J
R 503	(A,153,52)	RS1/16S0R0J
R 551	(A,96,26)	RS1/16S105J
R 552	(A,96,30)	RS1/16S152J
R 553	(A,99,28)	RS1/16S0R0J
R 554	(A,99,21)	RS1/16S220J
R 555	(A,95,22)	RS1/16S220J
R 613	(B,162,41)	RS1/16S0R0J
R 614	(B,160,41)	RS1/16S0R0J
R 615	(A,175,40)	RS1/16S0R0J
R 616	(B,178,41)	RS1/16S0R0J
R 651	(A,134,49)	RAB4C101J
R 654	(A,134,45)	RAB4C470J
R 657	(A,147,44)	RS1/16S470J
R 658	(B,144,47)	RS1/16S470J
R 659	(A,147,46)	RS1/16S470J
R 660	(A,147,47)	RS1/16S101J
R 661	(B,141,49)	RS1/16S101J
R 662	(A,147,49)	RS1/16S101J
R 668	(B,138,45)	RS1/16S104J
R 805	(A,135,58) RESISTOR ARRAY	RAB4C104J
R 806	(A,94,47) RESISTOR ARRAY	RAB4C104J
R 810	(A,135,61)	RS1/16S104J
R 901	(B,208,16)	RS1/16S104J
R 902	(B,84,57)	RS1/16S0R0J
R 903	(B,77,57)	RS1/16S0R0J
R 906	(A,74,14)	RS1/16S1802F
R 907	(A,73,12)	RS1/16S3002F
R 908	(B,177,33)	RS1/16S2002F
R 909	(B,174,34)	RS1/16S3002F
R 919	(B,178,23)	RS1/16S0R0J
R 929	(B,181,19)	RS1/16S104J
R 930	(B,183,19)	RS1/16S104J
R 951	(A,133,14) RESISTOR ARRAY	RAB4C104J
R 955	(A,116,18)	RS1/16S472J
R 962	(B,94,15)	RS1/16S104J

CAPACITORS

C 101	(A,78,58)	CEVW101M16
C 102	(A,67,14)	CEVW101M4
C 103	(A,50,51)	CCSRCH471J50
C 104	(A,49,51)	CKSRYB104K16
C 105	(A,50,48)	CCSRCH471J50
C 106	(A,49,48)	CKSRYB104K16
C 107	(A,50,45)	CCSRCH471J50
C 108	(A,49,45)	CKSRYB104K16
C 109	(A,50,43)	CCSRCH471J50
C 110	(A,49,43)	CKSRYB104K16
C 111	(A,50,39)	CCSRCH471J50
C 112	(A,49,39)	CKSRYB104K16
C 113	(A,50,36)	CCSRCH471J50
C 114	(A,49,36)	CKSRYB104K16
C 115	(A,50,33)	CCSRCH471J50
C 116	(A,49,33)	CKSRYB104K16
C 117	(A,50,30)	CCSRCH471J50
C 118	(A,49,30)	CKSRYB104K16
C 119	(A,50,27)	CCSRCH471J50
C 120	(A,49,27)	CKSRYB104K16
C 121	(A,54,23)	CCSRCH471J50
C 122	(A,54,21)	CKSRYB104K16
C 123	(A,57,23)	CCSRCH471J50
C 124	(A,57,21)	CKSRYB104K16
C 125	(A,60,23)	CCSRCH471J50

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	C 126	(A,60,21)	CKSRYB104K16		C 188	(A,9,16)	CKSRYB104K16
	C 127	(A,64,23)	CCSRCH471J50		C 201	(A,119,47)	CCSRCH471J50
	C 128	(A,64,21)	CKSRYB104K16		C 202	(A,119,48)	CKSRYB104K16
A	C 129	(A,67,23)	CCSRCH471J50		C 203	(A,112,47)	CCSRCH471J50
	C 130	(A,67,21)	CKSRYB104K16		C 204	(A,112,48)	CKSRYB104K16
	C 131	(A,69,23)	CCSRCH471J50		C 205	(A,107,47)	CCSRCH471J50
	C 132	(A,69,21)	CKSRYB104K16		C 206	(A,107,48)	CKSRYB104K16
	C 133	(A,73,23)	CCSRCH471J50		C 207	(A,103,42)	CCSRCH471J50
	C 134	(A,73,21)	CKSRYB104K16		C 208	(A,101,42)	CKSRYB104K16
	C 135	(A,76,24)	CCSRCH471J50		C 209	(A,103,39)	CCSRCH471J50
	C 136	(A,76,23)	CKSRYB104K16		C 210	(A,101,39)	CKSRYB104K16
	C 137	(A,79,26)	CCSRCH471J50		C 211	(A,103,31)	CCSRCH471J50
	C 138	(A,81,26)	CKSRYB104K16		C 212	(A,101,31)	CKSRYB104K16
	C 139	(A,79,28)	CCSRCH471J50		C 216	(A,105,28)	CCSRCH471J50
B	C 140	(A,81,28)	CKSRYB104K16		C 217	(A,105,26)	CKSRYB104K16
	C 141	(A,79,32)	CCSRCH471J50		C 218	(A,108,28)	CCSRCH471J50
	C 142	(A,81,32)	CKSRYB104K16		C 219	(A,108,26)	CKSRYB104K16
	C 143	(A,79,35)	CCSRCH471J50		C 220	(B,110,35)	CKSRYB103K50
	C 144	(A,81,35)	CKSRYB104K16		C 221	(A,114,28)	CCSRCH471J50
	C 145	(A,79,43)	CCSRCH471J50		C 222	(A,114,27)	CKSRYB104K16
	C 146	(A,81,43)	CKSRYB104K16		C 223	(A,123,33)	CCSRCH471J50
	C 147	(A,79,38)	CCSRCH471J50		C 224	(A,125,33)	CKSRYB104K16
	C 148	(A,81,38)	CKSRYB104K16		C 225	(A,123,36)	CCSRCH471J50
	C 149	(A,79,45)	CCSRCH471J50		C 226	(A,125,36)	CKSRYB104K16
	C 150	(A,81,45)	CKSRYB104K16		C 227	(A,123,41)	CCSRCH471J50
C							
	C 151	(A,79,48)	CCSRCH471J50		C 228	(A,125,41)	CKSRYB104K16
	C 152	(A,81,48)	CKSRYB104K16		C 229	(A,131,35) CHIP ELECT. CAPACITOR	CEVW101M4
	C 153	(A,77,52)	CCSRCH471J50		C 230	(A,93,17)	CEVW101M16
	C 154	(A,77,53)	CKSRYB104K16		C 291	(A,142,59)	CCSRCH471J50
	C 155	(A,74,52)	CCSRCH471J50		C 292	(A,142,60)	CKSRYB104K16
	C 156	(A,74,53)	CKSRYB104K16		C 303	(A,183,41)	CCSRCH471J50
	C 157	(A,71,52)	CCSRCH471J50		C 304	(A,185,41)	CKSRYB104K16
	C 158	(A,71,53)	CKSRYB104K16		C 305	(A,179,42)	CEVW470M6R3
	C 159	(A,68,52)	CCSRCH471J50		C 306	(A,184,36)	CCSRCH471J50
	C 160	(A,68,53)	CKSRYB104K16		C 307	(A,185,36)	CKSRYB104K16
D	C 161	(B,65,53)	CKSRYB103K50		C 310	(A,188,28)	CCSRCH120J50
	C 162	(A,66,52)	CCSRCH471J50		C 311	(A,192,28)	CCSRCH120J50
	C 163	(A,66,53)	CKSRYB104K16		C 312	(B,196,28)	CKSRYB104K16
	C 164	(A,63,52)	CCSRCH471J50		C 315	(B,198,28)	CKSRYB102K50
	C 165	(A,63,53)	CKSRYB104K16		C 316	(A,205,31)	CEVW470M6R3
	C 166	(A,60,52)	CCSRCH471J50		C 317	(A,200,35)	CKSRYB104K16
	C 167	(A,60,53)	CKSRYB104K16		C 318	(A,199,35)	CCSRCH471J50
	C 168	(A,57,52)	CCSRCH471J50		C 319	(A,199,38)	CKSRYB474K10
	C 169	(A,57,53)	CKSRYB104K16		C 353	(B,210,16)	CKSRYB103K50
	C 170	(A,54,52)	CCSRCH471J50		C 354	(B,215,30)	CKSRYB103K50
	C 171	(A,54,53)	CKSRYB104K16		C 401	(A,147,30)	CCSRCH471J50
E	C 174	(A,22,17)	CEVW101M16		C 402	(A,148,30)	CKSRYB104K16
	C 175	(B,36,38)	CCSRCH471J50		C 403	(A,145,36)	CEVW101M16
	C 176	(B,34,38)	CKSRYB104K16		C 404	(B,160,30)	CKSRYB104K16
	C 177	(B,33,21)	CCSRCH471J50		C 407	(B,143,19)	CCSRCH471J50
	C 178	(B,31,21)	CKSRYB104K16		C 408	(B,145,19)	CCSRCH471J50
	C 179	(A,14,16)	CCSRCH471J50		C 409	(B,148,19)	CCSRCH471J50
	C 180	(A,12,16)	CKSRYB104K16		C 410	(B,150,19)	CCSRCH471J50
	C 181	(A,15,25)	CCSRCH471J50		C 411	(B,153,19)	CCSRCH471J50
	C 182	(A,15,23)	CKSRYB104K16		C 412	(B,155,19)	CCSRCH471J50
	C 183	(A,40,49)	CCSRCH471J50		C 413	(B,158,19)	CCSRCH471J50
F	C 184	(A,42,49)	CKSRYB104K16		C 414	(B,160,19)	CCSRCH471J50
	C 185	(A,26,51)	CCSRCH471J50		C 415	(A,158,22)	CCSRCH471J50
	C 186	(A,24,51)	CKSRYB104K16		C 416	(A,158,21)	CKSRYB104K16
	C 187	(A,9,17)	CCSRCH471J50		C 417	(A,154,36)	CEVW101M16

Mark No.	Description	Part No.
C 418	(A,145,25)	CEVW470M6R3
C 420	(A,148,27)	CKSRYB104K16
C 481	(B,167,35)	CKSRYB104K16
C 482	(A,165,29)	CKSRYB104K16
C 483	(A,162,29)	CKSQYB225K10
C 485	(A,169,23)	CCSRCH471J50
C 486	(A,169,21)	CKSRYB104K16
C 487	(A,163,34)	CEVW101M16
C 488	(A,172,23)	CCSRCH471J50
C 489	(A,172,21)	CKSRYB104K16
C 490	(A,171,35)	CEVW100M16
C 552	(A,102,26)	CKSRYB104K16
C 553	(A,101,26)	CCSRCH471J50
C 554	(A,94,26)	CCSRCH100D50
C 555	(A,94,30)	CCSRCH100D50
C 651	(A,141,50)	CCSRCH471J50
C 652	(A,141,52)	CKSRYB104K16
C 801	(B,126,51)	CKSRYB104K16
C 901	(B,77,50)	CKSQYB105K16
C 903	(B,88,49)	CKSRYB105K6R3
C 904	(A,83,21)	CKSRYB105K6R3
C 905	(A,73,15) CHIP CERAMIC C.	DCG1028
C 906	(B,197,20)	CKSRYB104K16
C 907	(B,203,24)	CKSRYB105K6R3
C 908	(B,181,34)	CKSRYB105K6R3
C 909	(B,179,34)	CKSRYB105K6R3
C 918	(B,177,19)	CKSRYB103K50
C 921	(B,128,30)	CCSRCH471J50
C 922	(B,130,30)	CKSRYB103K50
C 923	(B,173,29)	CKSRYB104K16
C 924	(B,175,29)	CCSRCH471J50

H COMPOSITE ASSY

MISCELLANEOUS

IC 1001	(A,74,199) IC	CD74HC4051PW
IC 1003	(A,92,208) IC	CD74HC4053PW
IC 1004	(A,112,209) VIDEO AMP IC	LA7109
IC 1005	(B,56,197) PORT EXPANDER	BU4094BCF
IC 1006	(A,36,184) CHARACTER GENERATOR	PDC132A
IC 1101	(A,159,189) OP-AMP IC	UPC4570G2
Q 1002	(B,99,204) TRANSISTOR	2SC4081
Q 1003	(B,27,194) TRANSISTOR	2SC4081
Q 1004	(B,179,188) TRANSISTOR	2SC4081
Q 1102	(A,173,207) DIGITAL TR (SC-70)	RT1N431M
D 1001	(B,88,192) DIODE	DAN202U
D 1002	(B,84,192) DIODE	DAN202U
D 1003	(B,132,179) DIODE	1SS355
D 1004	(B,123,176) DIODE	1SS355
D 1005	(B,57,180) DIODE	DAP202U
D 1101	(A,163,208) DIODE	UDZS6R2(B)
D 1102	(A,157,208) DIODE	UDZS6R2(B)
D 1103	(A,163,210) DIODE	UDZS6R2(B)
D 1104	(A,157,209) DIODE	UDZS6R2(B)
D 1105	(A,172,201) DIODE	1SS355
D 1108	(B,178,206) DIODE	UDZS5R1(B)
D 1109	(B,176,206) DIODE	UDZS5R1(B)
D 1110	(B,169,207) DIODE	UDZS5R1(B)
L 1002	(B,180,192) CHIP COIL	LCTAW120J2520
L 1003	(A,33,200) AXIAL INDUCTOR	LAU330J

Mark No.	Description	Part No.
JA 1006	(A,57,233) PIN JACK (1P)	AKB7175
X 1001	(A,44,196) CRYSTAL (14.31818M)	ASS1056
CN1001	(A,184,173) 11P SOCKET	XKP3076
CN1002	(A,77,178) 21P SOCKET	XKP3081
CN1003	(A,184,198) 13P SOCKET	XKP3077
CN1004	(A,161,233) 20P SOCKET	AKP7202
1003	(A,78,233) PIN JACK (2P)	AKB7176
1001	(A,134,233) PIN JACK (2P)	AKB7176
1002	(A,106,233) PIN JACK (2P)	AKB7176

RESISTORS

R 1001	(B,142,224) RS1/16S750J
R 1002	(B,125,221) RS1/16S750J
R 1003	(B,97,220) RS1/16S750J
R 1004	(B,69,220) RS1/16S750J
R 1007	(B,81,220) RS1/16S750J
R 1009	(B,108,220) RS1/16S750J
R 1011	(B,54,219) RS1/16S750J
R 1014	(B,99,198) RS1/16S102J
R 1017	(B,105,201) RS1/16S103J
R 1018	(B,114,201) RS1/16S103J
R 1019	(B,122,201) RS1/16S103J
R 1020	(B,131,201) RS1/16S103J
R 1021	(A,108,203) RS1/16S103J
R 1022	(A,117,203) RS1/16S103J
R 1023	(B,133,204) RS1/16S473J
R 1024	(B,135,205) RS1/16S473J
R 1025	(B,66,204) RS1/16S473J
R 1026	(B,63,204) RS1/16S473J
R 1030	(B,85,196) RS1/16S473J
R 1031	(B,71,193) RS1/16S473J
R 1032	(B,69,193) RS1/16S473J
R 1033	(B,54,189) RS1/16S473J
R 1034	(A,42,177) RS1/16S102J
R 1035	(B,28,187) RS1/16S512J
R 1036	(B,30,187) RS1/16S392J
R 1037	(B,41,189) RS1/16S102J
R 1039	(A,25,193) RS1/16S331J
R 1040	(A,25,196) RS1/16S331J
R 1041	(A,27,196) RS1/16S331J
R 1043	(B,175,192) RS1/16S561J
R 1046	(B,179,190) RS1/16S102J
R 1049	(B,94,203) RS1/16S103J
R 1051	(B,88,200) RS1/16S0R0J
R 1054	(B,90,209) RS1/16S473J
R 1101	(A,162,205) RS1/16S104J
R 1102	(A,158,206) RS1/16S104J
R 1103	(A,164,205) RS1/16S331J
R 1104	(A,155,205) RS1/16S331J
R 1105	(B,163,199) RS1/16S104J
R 1106	(B,156,199) RS1/16S104J
R 1107	(B,163,193) RS1/16S472J
R 1108	(B,157,193) RS1/16S472J
R 1109	(B,168,195) RS1/16S472J
R 1110	(B,150,195) RS1/16S472J
R 1111	(B,163,190) RS1/16S103J

Mark	No.	Description	Part No.
	R 1112(B,155,189)		RS1/16S103J
	R 1113(A,165,188)		RS1/16S103J
	R 1114(A,154,189)		RS1/16S103J
A	R 1115(B,162,183)		RS1/16S101J
	R 1116(B,156,183)		RS1/16S101J
	R 1117(B,169,185)		RS1/16S104J
	R 1118(B,167,182)		RS1/16S104J
	R 1122(A,170,205)		RS1/16S514J
	R 1124(A,170,208)		RS1/16S393J

CAPACITORS

C 1001(A,75,202)		CKSRYB103K50
C 1002(A,73,204)		CKSRYB103K50
C 1005(A,91,212)		CKSRYB104K50
B C 1006(A,94,212)		CKSRYB104K50
C 1008(B,65,202)		CKSRYB104K50
C 1011(B,96,205)		CKSRYB103K50
C 1012(B,101,198)		CKSRYB103K50
C 1014(A,88,197)		CEAT101M10
C 1016(A,116,200)		CEAT101M10
C 1017(A,125,200)		CEAT101M10
C 1018(A,134,200)		CEAT101M10
C 1019(B,116,211)		CKSRYB104K50
C 1020(A,120,208)		CKSRYB104K50
C 1021(A,123,214)		CEAT101M10
C C 1022(A,129,214)		CEAT101M10
C 1024(B,84,225)		CCSRCH181J50
C 1025(B,113,224)		CCSRCH181J50
C 1026(B,56,224)		CCSRCH181J50
C 1027(A,45,180)		CEAT101M10
C 1028(A,45,187)		CEAT101M10
C 1029(A,45,177)		CKSRYB473K25
C 1030(A,27,185)		CKSRYB473K25
C 1031(A,39,177)		CCSRCH101J50
C 1032(A,35,177)		CKSRYB122K50
C 1033(A,31,177)		CKSRYB122K50
D C 1035(B,34,187)		CKSRYB103K50
C 1036(B,47,191)		CCSRCH150J50
C 1037(B,45,191)		CCSRCH180J50
C 1038(B,36,190)		CCSRCH240J50
C 1039(B,33,194)		CCSRCH240J50
C 1040(A,31,193)		CCSRCH101J50
C 1041(A,28,193)		CCSRCH101J50
C 1042(A,27,193)		CCSRCH101J50
C 1045(B,184,192)		CCSRCH330J50
C 1046(B,178,193)		CCSRCH120J50
E C 1047(B,180,194)		CCSRCJ3R0C50
C 1093(B,111,224)		CKSRYB103K50
C 1095(B,82,225)		CKSRYB103K50
C 1096(B,79,225)		CKSRYB103K50
C 1097(B,54,224)		CKSRYB103K50
C 1098(B,43,224)		CKSRYB103K50
C 1101(A,162,206)		CCSRCH101J50
C 1102(A,158,205)		CCSRCH101J50
C 1103(A,160,200)		CCSRCH101J50
C 1104(A,158,200)		CCSRCH101J50
F C 1105(A,163,201)		CEAT100M50
C 1106(A,155,201)		CEAT100M50
C 1107(A,168,197)		CEAT100M50
C 1108(A,150,197)		CEAT100M50
C 1113(A,157,193)		CKSRYB103K50
C 1114(A,162,193)		CKSRYB103K50
C 1115(A,162,180)		CEAT100M50
C 1116(A,156,180)		CEAT100M50
C 1117(A,174,198)		CKSRYB103K50
C 1118(B,167,224)		CKSRYB103K50
C 1127(A,171,220)		CKSRYB104K50

I S-VIDEO ASSY

MISCELLANEOUS

IC 1201(A,115,134)	IC	CD74HC4051PW
IC 1202(A,103,134)	IC	CD74HC4051PW
IC 1203(A,111,119)	IC	CD74HC4053PW
IC 1204(A,130,136)	IC	LA7213
IC 1205(A,66,138)	VIDEO AMP IC	LA7109
Q 1201(B,147,133)	TRANSISTOR	RT1N241M
Q 1203(B,135,115)	TRANSISTOR	2SC4081
Q 1204(B,135,106)	TRANSISTOR	2SC4081
Q 1205(A,148,117)	TRANSISTOR	2SC4081
Q 1206(B,155,104)	TRANSISTOR	2SC4081
D 1201(B,141,129)	DIODE	1SS355
D 1202(B,144,134)	DIODE	1SS355
D 1203(B,79,133)	DIODE	DAN202K
D 1204(A,83,129)	DIODE	DAN202K
D 1251(B,93,114)	DIODE	1SS355
D 1252(B,77,115)	DIODE	1SS355
D 1301(B,170,143)	DIODE	1SS355
L 1201(A,155,109)	CHIP COIL	LCTAW120J2520
L 1202(B,162,108)	CHIP COIL	LCTAW120J2520
L 1301(B,161,128)	CHIP SOLID INDUCTOR	QTL1013
CN1201(A,175,128)	13P SOCKET	XKP3077
CN1202(A,175,104)	11P SOCKET	XKP3076
CN1203(A,68,108)	15P SOCKET	XKP3078
CN1204	SOCKET	XKB3052
CN1205(A,97,163)	SOCKET	XKB3051
CN1206(A,125,163)	SOCKET	XKB3051
CN1302(A,175,152)	07P CONNECTOR	RKN1048

RESISTORS

R 1201(B,131,152)	RS1/16S750J
R 1202(B,133,152)	RS1/16S750J
R 1203(B,117,152)	RS1/16S750J
R 1204(B,119,152)	RS1/16S750J
R 1205(B,89,152)	RS1/16S750J
R 1206(B,91,152)	RS1/16S750J
R 1207(B,61,151)	RS1/16S750J
R 1208(B,63,151)	RS1/16S750J
R 1209(B,47,148)	RS1/16S750J
R 1210(B,49,148)	RS1/16S750J
R 1211(B,103,149)	RS1/16S750J
R 1212(B,105,149)	RS1/16S750J
R 1213(B,75,149)	RS1/16S750J
R 1214(B,77,149)	RS1/16S750J
R 1215(B,123,134)	RS1/16S331J

Mark	No.	Description	Part No.
R	1216(B,125,134)		RS1/16S224J
R	1217(B,141,134)		RS1/16S472J
R	1218(B,144,129)		RS1/16S223J
R	1223(B,137,115)		RS1/16S102J
R	1224(B,138,106)		RS1/16S102J
R	1225(A,59,132)		RS1/16S103J
R	1226(A,63,132)		RS1/16S103J
R	1227(A,65,132)		RS1/16S103J
R	1228(A,87,131)		RS1/16S103J
R	1229(A,68,132)		RS1/16S103J
R	1230(A,87,133)		RS1/16S103J
R	1231(B,80,137)		RS1/16S473J
R	1232(A,72,130)		RS1/16S473J
R	1235(A,155,111)		RS1/16S561J
R	1236(B,167,108)		RS1/16S561J
R	1237(B,130,115)		RS1/16S103J
R	1238(B,130,106)		RS1/16S103J
R	1243(A,145,119)		RS1/16S102J
R	1244(B,157,102)		RS1/16S102J
R	1310(A,175,147)		RS1/16S103J

CAPACITORS

C	1201(B,133,148)		CKSRYB104K16
C	1202(B,119,148)		CKSRYB104K16
C	1203(B,91,148)		CKSRYB104K16
C	1204(B,63,148)		CKSRYB104K16
C	1205(B,49,151)		CCSRCH181J50
C	1206(B,47,151)		CCSRCH181J50
C	1207(B,105,152)		CCSRCH181J50
C	1208(B,103,152)		CCSRCH181J50
C	1209(B,77,152)		CCSRCH181J50
C	1210(B,75,152)		CCSRCH181J50
C	1211(A,111,134)		CKSRYB104K16
C	1212(A,119,132)		CKSRYB104K16
C	1213(A,99,134)		CKSRYB104K16
C	1214(A,107,131)		CKSRYB104K16
C	1215(A,115,115)		CKSRYB104K16
C	1216(A,108,121)		CKSRYB104K16
C	1217(A,132,141)	ELECT. CAPACITOR	CEAT3R3M50
C	1218(A,138,135)		CEAT101M10
C	1219(A,138,128)		CEAT101M10
C	1221(A,125,115)		CEAT101M10
C	1222(A,125,106)		CEAT101M10
C	1223(A,145,115)		CEAT101M10
C	1224(A,145,106)		CEAT101M10
C	1225(B,132,110)		CKSRYB103K50
C	1226(B,140,110)		CKSRYB103K50
C	1227(A,47,118)		CEAT101M10
C	1228(B,57,129)		CKSRYB104K16
C	1229(A,55,118)		CEAT101M10
C	1230(A,87,130)		CKSRYB104K16
C	1231(A,62,118)		CEAT101M10
C	1232(A,87,135)		CKSRYB104K16
C	1233(B,59,142)		CKSRYB104K16
C	1234(B,59,134)		CKSRYB104K16
C	1235(A,53,143)		CEAT101M16
C	1236(A,53,136)		CEAT101M16

Mark	No.	Description	Part No.
C	1243(A,155,113)		CCSRCH120J50
C	1244(B,167,109)		CCSRCH120J50
C	1245(A,152,112)		CCSRCH330J50
C	1246(B,158,108)		CCSRCH330J50
C	1249(A,155,107)		CCSRCJ3R0C50
C	1250(B,162,111)		CCSRCJ3R0C50
C	1292(B,73,158)		CKSRYB103K50
C	1293(B,93,158)		CKSRYB103K50
C	1294(B,129,158)		CKSRYB103K50
C	1301(A,158,138)		CEAT101M16
C	1302(A,153,141)		CKSRYB103K50

J BRIDGE 2 ASSY

MISCELLANEOUS

CN2901(A,21,29)	17P PLUG	XKP3068
CN2902(A,100,29)	17P PLUG	XKP3068

K COMPONENT ASSY

MISCELLANEOUS

IC 1401(A,113,70)	MULTIPLEXER (4CHx2)	TC74LVX4052FT
IC 1402(A,124,72)	MULTIPLEXER (4CHx2)	TC74LVX4052FT
IC 1403(A,139,69)	MULTIPLEXER (2CHx3)	TC74LVX4053FT
IC 1404(B,93,70)	VIDEO IC	NJM2581M
IC 1405(A,129,50)	LOGIC IC	CD4094BPW
Q 1401(B,87,57)	TRANSISTOR	2SC4081
Q 1402(B,71,57)	TRANSISTOR	2SA1576A
Q 1403(B,163,64)	TRANSISTOR	2SA1576A
Q 1405(B,163,69)	TRANSISTOR	2SA1576A
Q 1407(B,163,74)	TRANSISTOR	2SA1576A
Q 1415(B,156,59)	TRANSISTOR	2SC4081
Q 1416(B,162,50)	TRANSISTOR	2SC4081
Q 1417(B,167,42)	TRANSISTOR	2SC4081
Q 1501(A,62,65)	TRANSISTOR	IMX25
Q 1502(A,68,65)	TRANSISTOR	IMX25
Q 1521(A,49,65)	TRANSISTOR	IMX25
Q 1522(A,55,65)	TRANSISTOR	IMX25
Q 1541(A,36,65)	TRANSISTOR	IMX25
Q 1542(A,42,65)	TRANSISTOR	IMX25
Q 1561(A,22,65)	TRANSISTOR	IMX25
Q 1562(A,29,65)	TRANSISTOR	IMX25
D 1401(B,85,43)	DIODE	1SS355
D 1402(B,83,43)	DIODE	1SS355
L 1401(B,166,58)	CHIP COIL	LCTAW120J2520
L 1402(B,169,53)	CHIP COIL	LCTAW120J2520
L 1403(B,175,49)	CHIP COIL	LCTAW120J2520
JA 1401(A,141,94)	6P RCA PIN JACK	XKB3053
JA 1402(A,99,94)	6P RCA PIN JACK	XKB3053
CN1401(A,175,56)	13P SOCKET	XKP3077
CN1402(A,175,30)	11P SOCKET	XKP3076
CN1403(A,68,39)	13P SOCKET	XKP3077
CN1405(A,19,59)	17P SOCKET	XKP3079
CN1406(A,53,41)	CONNECTOR	CKS3384
CN1501(A,58,94)	PIN JACK (4P)	AKB7172
CN1502(A,30,94)	PIN JACK (4P)	AKB7172
1401(A,166,28)	PCB BINDER	VEF1040

Mark	No.	Description	Part No.
		RESISTORS	
	R 1401	(B,149,85)	RS1/16S750J
	R 1402	(B,138,85)	RS1/16S750J
A	R 1403	(B,124,85)	RS1/16S750J
	R 1404	(B,157,85)	RS1/16S750J
	R 1405	(B,145,85)	RS1/16S750J
	R 1406	(B,131,85)	RS1/16S750J
	R 1407	(B,115,85)	RS1/16S750J
	R 1408	(B,103,85)	RS1/16S750J
	R 1409	(B,89,85)	RS1/16S750J
	R 1410	(B,107,78)	RS1/16S750J
	R 1411	(B,93,78)	RS1/16S750J
	R 1412	(B,83,79)	RS1/16S750J
	R 1416	(B,91,61)	RS1/16S102J
B	R 1417	(B,85,57)	RS1/16S153J
	R 1418	(B,75,56)	RS1/16S153J
	R 1419	(B,82,58)	RS1/16S333J
	R 1420	(B,78,58)	RS1/16S333J
	R 1421	(B,159,64)	RS1/16S102J
	R 1422	(B,159,69)	RS1/16S102J
	R 1423	(B,159,74)	RS1/16S102J
	R 1424	(B,169,59)	RS1/16S561J
	R 1425	(B,171,54)	RS1/16S561J
	R 1426	(B,173,53)	RS1/16S561J
	R 1430	(B,133,54)	RS1/16S473J
C	R 1431	(B,131,54)	RS1/16S473J
	R 1432	(B,131,50)	RS1/16S473J
	R 1433	(B,134,46)	RS1/16S473J
	R 1434	(A,134,46)	RS1/16S0R0J
	R 1439	(B,126,49)	RS1/16S473J
	R 1440	(B,124,49)	RS1/16S473J
	R 1441	(B,128,48)	RS1/16S473J
	R 1442	(B,128,45)	RS1/16S473J
	R 1443	(B,157,64)	RS1/16S154J
	R 1444	(B,160,64)	RS1/16S124J
	R 1446	(B,157,69)	RS1/16S154J
D	R 1447	(B,161,69)	RS1/16S124J
	R 1449	(B,157,74)	RS1/16S154J
	R 1450	(B,161,74)	RS1/16S124J
	R 1461	(B,162,60)	RS1/16S104J
	R 1462	(B,163,55)	RS1/16S104J
	R 1463	(B,166,48)	RS1/16S104J
	R 1464	(B,157,55)	RS1/16S102J
	R 1465	(B,166,52)	RS1/16S102J
	R 1466	(B,173,47)	RS1/16S102J
	R 1501	(B,62,59)	RS1/16S271J
E	R 1502	(B,68,59)	RS1/16S271J
	R 1503	(B,62,65)	RS1/16S121J
	R 1504	(B,68,65)	RS1/16S121J
	R 1505	(B,62,70)	RS1/16S101J
	R 1506	(B,68,70)	RS1/16S101J
	R 1507	(B,63,86)	RS1/16S474J
	R 1508	(B,67,87)	RS1/16S474J
	R 1509	(A,62,60)	RS1/16S103J
	R 1510	(A,68,60)	RS1/16S103J
	R 1511	(A,60,69)	RS1/16S103J
F	R 1512	(A,67,69)	RS1/16S103J
	R 1521	(B,49,59)	RS1/16S271J
	R 1522	(B,55,59)	RS1/16S271J
	R 1523	(B,49,65)	RS1/16S121J
	R 1524	(B,55,65)	RS1/16S121J
	R 1525	(B,49,70)	RS1/16S101J
	R 1526	(B,55,70)	RS1/16S101J
	R 1527	(B,49,86)	RS1/16S474J
	R 1528	(B,53,87)	RS1/16S474J
	R 1529	(A,49,60)	RS1/16S103J
	R 1530	(A,55,60)	RS1/16S103J
	R 1531	(A,47,69)	RS1/16S103J
	R 1532	(A,54,69)	RS1/16S103J
	R 1541	(B,36,59)	RS1/16S271J
	R 1542	(B,42,59)	RS1/16S271J
	R 1543	(B,36,65)	RS1/16S121J
	R 1544	(B,42,65)	RS1/16S121J
	R 1545	(B,36,70)	RS1/16S101J
	R 1546	(B,42,70)	RS1/16S101J
	R 1547	(B,35,86)	RS1/16S474J
	R 1548	(B,39,87)	RS1/16S474J
	R 1549	(A,36,60)	RS1/16S103J
	R 1550	(A,42,60)	RS1/16S103J
	R 1551	(A,34,69)	RS1/16S103J
	R 1552	(A,41,69)	RS1/16S103J
	R 1561	(B,23,61)	RS1/16S271J
	R 1562	(B,29,61)	RS1/16S271J
	R 1563	(B,22,65)	RS1/16S121J
	R 1564	(B,29,65)	RS1/16S121J
	R 1565	(B,22,70)	RS1/16S101J
	R 1566	(B,29,70)	RS1/16S101J
	R 1567	(B,21,86)	RS1/16S474J
	R 1568	(B,25,87)	RS1/16S474J
	R 1569	(A,23,60)	RS1/16S103J
	R 1570	(A,29,60)	RS1/16S103J
	R 1571	(A,21,69)	RS1/16S103J
	R 1572	(A,27,69)	RS1/16S103J
	R 1573	(A,65,46)	RS1/16S473J
	R 1574	(A,62,46)	RS1/16S471J
	R 1575	(A,63,44)	RS1/16S473J
	R 1576	(A,61,43)	RS1/16S471J
		CAPACITORS	
	C 1413	(A,118,70)	CKSRYB103K50
	C 1414	(A,107,72)	CKSRYB103K50
	C 1415	(A,131,70)	CKSRYB103K50
	C 1416	(A,117,73)	CKSRYB103K50
	C 1417	(A,143,67)	CKSRYB103K50
	C 1418	(A,135,72)	CKSRYB103K50
	C 1419	(A,101,61)	CEAT101M10
	C 1420	(A,95,61)	CEAT101M10
	C 1421	(A,97,53)	CEAT101M10
	C 1425	(A,83,67)	CEAT101M10
	C 1426	(A,83,73)	CEAT101M10
	C 1427	(B,86,67)	CKSRYB104K25
	C 1428	(B,86,72)	CKSRYB104K25
	C 1431	(B,82,60)	CKSRYB224K10
	C 1432	(B,78,60)	CKSRYB224K10

Mark	No.	Description	Part No.
C	1433(B,153,64)		CKSRYB103K50
C	1434(B,168,64)		CKSRYB103K50
C	1435(B,153,70)		CKSRYB103K50
C	1436(B,168,69)		CKSRYB103K50
C	1437(B,152,76)		CKSRYB103K50
C	1438(B,168,73)		CKSRYB103K50
C	1439(A,151,63)		CEAT100M50
C	1440(A,151,68)		CEAT100M50
C	1441(A,150,74)		CEAT100M50
C	1445(A,170,59)		CCSRCH120J50
C	1446(A,170,55)		CCSRCH120J50
C	1447(A,172,50)		CCSRCH120J50
C	1448(A,169,59)		CCSRCH330J50
C	1449(A,169,55)		CCSRCH330J50
C	1450(A,170,50)		CCSRCH330J50
C	1454(A,170,57)		CCSRCJ3R0C50
C	1455(A,170,52)		CCSRCJ3R0C50
C	1456(A,172,48)		CCSRCJ3R0C50
C	1469(A,130,54)		CKSRYB104K50
C	1471(A,163,58)		CEAT100M50
C	1472(A,163,53)		CEAT100M50
C	1473(A,166,46)		CEAT100M50
C	1490(B,147,85)		CKSRYB103K50
C	1491(B,133,85)		CKSRYB103K50
C	1492(B,105,85)		CKSRYB103K50
C	1493(B,91,85)		CKSRYB103K50
C	1501(B,63,84)		CCSRCH101J50
C	1502(B,67,85)		CCSRCH101J50
C	1507(B,60,70)		CCSRCH271J50
C	1508(B,66,70)		CCSRCH271J50
C	1521(B,49,84)		CCSRCH101J50
C	1522(B,53,85)		CCSRCH101J50
C	1527(B,47,70)		CCSRCH271J50
C	1528(B,53,70)		CCSRCH271J50
C	1531(A,60,78)	ELECT. CAPACITOR	CEAT470M25
C	1532(A,67,78)	ELECT. CAPACITOR	CEAT470M25
C	1533(A,47,78)	ELECT. CAPACITOR	CEAT470M25
C	1541(B,35,84)		CCSRCH101J50
C	1542(B,39,85)		CCSRCH101J50
C	1547(A,54,78)	ELECT. CAPACITOR	CEAT470M25
C	1548(A,34,78)	ELECT. CAPACITOR	CEAT470M25
C	1549(A,41,78)	ELECT. CAPACITOR	CEAT470M25
C	1550(A,21,78)	ELECT. CAPACITOR	CEAT470M25
C	1551(A,27,78)	ELECT. CAPACITOR	CEAT470M25
C	1561(B,21,84)		CCSRCH101J50
C	1562(B,25,85)		CCSRCH101J50
C	1567(A,60,46)		CKSRYB472K50
C	1568(A,58,44)		CKSRYB472K50
C	1569(B,34,70)		CCSRCH271J50
C	1570(B,40,70)		CCSRCH271J50
C	1571(B,20,70)		CCSRCH271J50
C	1572(B,27,70)		CCSRCH271J50
C	1591(B,58,86)		CKSRYB103K50
C	1593(B,30,86)		CKSRYB103K50

COMPLEX ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
⚠Y	14	AWG18 BOARD IN	ADX7500
⚠Y	15	AWG18 BOARD IN	ADX7501

L DISPLAY ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
IC	2301(B,164,214)	DISPLAY U-COM	PE5503A
IC	2402(A,237,230)	REMOTE RECEIVER UNIT	RPM7540-H9
Q	2401(B,205,185)	TRANSISTOR	RT1N241M
Q	2404(B,251,192)	TRANSISTOR	2SA1576A
Q	2405(B,231,192)	TRANSISTOR	RT1N241M
Q	2406(B,225,220)	DIGITAL TR (SC-70)	RT1N431M
Q	2407(B,70,220)	DIGITAL TR (SC-70)	RT1N431M
Q	2408(B,65,214)	DIGITAL TR (SC-70)	RT1N431M
D	2404(B,238,190)	DIODE	1SS355
D	2405(B,254,195)	DIODE	1SS355
D	2406(B,252,209)	DIODE	DAN202U
D	2408(A,237,220)	LED (ORANGE)	SLI-343DCW(STU)
D	2410(A,76,218)	LED (RED)	SLI-343URW(RST)
D	2412(A,58,214)	LED (RED)	SLI-343URW(RST)
D	2416(B,53,227)	DIODE	1SS355
L	2401(A,248,205)	RADIAL INDUCTOR	LFCA2R2J
V	2301(A,218,237)	FL TUBE	AAV7105
X	2301(A,179,197)	CERAMIC (5M)	VSS1142
CN	2301(A,269,204)	CONNECTOR	CKS3394
	2302(A,48,221)	17P CABLE HOLDER	51048-1700
	2301(A,157,201)	FL HOLDER (FE)	VNF1096
	2303(A,267,196)	CABLE HOLDER (4P)	51063-0405

RESISTORS

R	2301(B,104,240)		RS1/16S104J
R	2302(B,106,240)		RS1/16S104J
R	2303(B,108,240)		RS1/16S104J
R	2304(B,110,240)		RS1/16S104J
R	2305(B,112,240)		RS1/16S104J
R	2306(B,114,240)		RS1/16S104J
R	2307(B,116,240)		RS1/16S104J
R	2308(B,118,240)		RS1/16S104J
R	2309(B,120,240)		RS1/16S104J
R	2310(B,122,240)		RS1/16S104J
R	2311(B,124,240)		RS1/16S104J
R	2312(B,126,240)		RS1/16S104J
R	2313(B,128,240)		RS1/16S104J
R	2314(B,130,240)		RS1/16S104J
R	2315(B,132,240)		RS1/16S104J
R	2316(B,134,240)		RS1/16S104J
R	2317(B,136,240)		RS1/16S104J
R	2318(B,138,240)		RS1/16S104J
R	2319(B,140,240)		RS1/16S104J
R	2320(B,142,240)		RS1/16S104J
R	2321(B,144,240)		RS1/16S104J
R	2322(B,146,240)		RS1/16S104J
R	2323(B,148,240)		RS1/16S104J
R	2324(B,150,240)		RS1/16S104J
R	2325(B,152,240)		RS1/16S104J
R	2326(B,154,240)		RS1/16S104J
R	2327(B,156,240)		RS1/16S104J
R	2328(B,158,240)		RS1/16S104J
R	2329(B,160,240)		RS1/16S104J
R	2330(B,162,240)		RS1/16S104J

Mark	No.	Description	Part No.
	R	2331(B,164,240)	RS1/16S104J
	R	2332(B,166,240)	RS1/16S104J
	R	2333(B,168,240)	RS1/16S104J
A	R	2334(B,170,240)	RS1/16S104J
	R	2335(B,172,240)	RS1/16S104J
	R	2336(B,174,240)	RS1/16S104J
	R	2337(B,176,240)	RS1/16S104J
	R	2338(B,180,240)	RS1/16S473J
	R	2339(B,182,240)	RS1/16S473J
	R	2340(B,184,240)	RS1/16S473J
	R	2341(B,186,240)	RS1/16S473J
	R	2342(B,188,240)	RS1/16S473J
	R	2343(B,190,240)	RS1/16S473J
	R	2344(B,192,240)	RS1/16S473J
B	R	2345(B,194,240)	RS1/16S473J
	R	2346(B,196,240)	RS1/16S473J
	R	2347(B,198,240)	RS1/16S473J
	R	2348(B,200,240)	RS1/16S473J
	R	2349(B,202,240)	RS1/16S473J
	R	2350(B,204,240)	RS1/16S473J
	R	2351(B,206,240)	RS1/16S473J
	R	2352(B,208,240)	RS1/16S473J
	R	2353(B,210,240)	RS1/16S473J
	R	2354(B,198,200)	RS1/16S473J
	R	2355(B,206,191)	RS1/16S473J
C	R	2356(B,190,207)	RS1/16S473J
	R	2357(B,193,202)	RS1/16S473J
	R	2358(B,181,201)	RS1/16S105J
	R	2359(B,176,202)	RS1/16S104J
	R	2361(B,172,197)	RS1/16S221J
	R	2362(B,170,194)	RS1/16S221J
	R	2363(B,169,194)	RS1/16S221J
	R	2364(B,167,194)	RS1/16S221J
	R	2366(B,162,198)	RS1/16S104J
	R	2368(B,126,199)	RS1/16S473J
D	R	2369(B,131,208)	RS1/16S474J
	R	2370(B,114,207)	RS1/16S221J
	R	2371(B,136,208)	RS1/16S104J
	R	2372(B,135,208)	RS1/16S221J
	R	2373(B,133,208)	RS1/16S101J
	R	2374(B,134,212)	RS1/16S221J
	R	2375(B,129,208)	RS1/16S104J
	R	2377(B,135,204)	RS1/16S474J
	R	2378(B,133,204)	RS1/16S104J
	R	2401(B,262,227)	RS1/16S221J
	R	2402(B,260,227)	RS1/16S0R0J
E	R	2403(B,258,225)	RS1/16S0R0J
	R	2404(B,256,224)	RS1/16S0R0J
	R	2405(B,254,223)	RS1/16S0R0J
	R	2406(B,201,185)	RS1/16S473J
	R	2411(B,247,191)	RS1/16S0R0J
	R	2412(B,249,192)	RS1/16S104J
	R	2413(B,240,191)	RS1/16S472J
	R	2414(B,237,196)	RS1/16S0R0J
	R	2415(B,257,192)	RS1/16S104J
	R	2416(B,251,195)	RS1/16S103J
F	R	2417(B,239,196)	RS1/16S102J
	R	2419(B,232,240)	RS1/16S101J
	R	2420(B,233,220)	RS1/16S331J
	R	2421(B,72,225)	RS1/16S331J
	R	2422(B,64,219)	RS1/16S331J
	R	2424(B,135,193)	RS1/16S472J

CAPACITORS

	C	2303(B,221,238)	CCSRCH471J50
	C	2304(A,230,236) ELECT. CAPACITOR	CEAT101M35
	C	2305(B,178,231)	CCSRCH471J50
	C	2306(B,180,231)	CCSRCH471J50
	C	2307(B,182,231)	CCSRCH471J50
	C	2308(B,183,231)	CCSRCH471J50
	C	2309(B,187,231)	CCSRCH471J50
	C	2310(B,189,231)	CCSRCH471J50
	C	2311(B,190,231)	CCSRCH471J50
	C	2312(B,192,231)	CCSRCH471J50
	C	2313(B,196,231)	CCSRCH471J50
	C	2314(B,197,231)	CCSRCH471J50
	C	2315(B,199,231)	CCSRCH471J50
	C	2316(B,201,231)	CCSRCH471J50
	C	2317(B,204,231)	CCSRCH471J50
	C	2318(B,206,231)	CCSRCH471J50
	C	2319(B,208,231)	CCSRCH471J50
	C	2320(B,209,231)	CCSRCH471J50
	C	2351(B,180,215)	CKSRYB103K50
	C	2353(B,185,207)	CKSRYB104K25
	C	2354(B,175,202)	CKSRYB104K25
	C	2359(B,142,204)	CKSRYB103K50
	C	2360(A,87,231) ELECT. CAPACITOR	CEJQ470M50
	C	2361(B,161,230)	CKSRYB103K50
	C	2362(B,160,230)	CKSRYB103K50
	C	2403(B,247,195)	CKSRYB103K50
	C	2404(B,237,236)	CKSRYB103K50
	C	2405(A,247,235)	CEJQ101M6R3
	C	2406(B,245,209)	CKSRYB103K50
	C	2407(A,229,210)	CEJQ221M6R3

M VOLUME ASSY

MISCELLANEOUS

	J	2451 JUMPER WIRE	D15A04-100-2651
	S	2451(A,289,207) SWITCH	VSG1024
	S	2452(A,304,207) SWITCH	VSG1024
	S	2453(A,314,207) SWITCH	VSG1024
	S	2454(A,302,174) ROTARY ENCODER	ASX7048
		2451(A,278,202) CABLE HOLDER (4P)	51063-0405

RESISTORS

	R	2451(B,296,206)	RS1/16S681J
	R	2452(B,311,206)	RS1/16S821J

CAPACITORS

	C	2451(B,281,208)	CKSRYB102K50
	C	2452(B,304,186)	CKSRYB103K50
	C	2453(B,299,186)	CKSRYB103K50

Mark No.	Description	Part No.
N	**MULTI JOG ASSY**	
MISCELLANEOUS		
IC 2501(B,157,111)	LOGIC IC	CD4094BNS
Q 2501(B,162,146)	DIGITAL TR (SC-70)	RT1N431M
Q 2502(B,174,146)	DIGITAL TR (SC-70)	RT1N431M
Q 2503(B,195,146)	DIGITAL TR (SC-70)	RT1N431M
Q 2504(B,217,146)	DIGITAL TR (SC-70)	RT1N431M
Q 2505(B,237,147)	DIGITAL TR (SC-70)	RT1N431M
Q 2506(B,259,146)	DIGITAL TR (SC-70)	RT1N431M
Q 2507(B,280,146)	DIGITAL TR (SC-70)	RT1N431M
Q 2508(B,314,140)	DIGITAL TR (SC-70)	RT1N431M
Q 2509(B,131,147)	DIGITAL TR (SC-70)	RT1N431M
Q 2510(B,22,184)	DIGITAL TR (SC-70)	RT1N431M
Q 2511(B,121,147)	DIGITAL TR (SC-70)	RT1N431M
Q 2512(B,87,146)	DIGITAL TR (SC-70)	RT1N431M
D 2502(A,155,147)	LED (ORANGE)	SLI-343DCW(STU)
D 2504(A,177,147)	LED (ORANGE)	SLI-343DCW(STU)
D 2506(A,198,147)	LED (ORANGE)	SLI-343DCW(STU)
D 2508(A,220,147)	LED (ORANGE)	SLI-343DCW(STU)
D 2510(A,241,147)	LED (ORANGE)	SLI-343DCW(STU)
D 2512(A,263,147)	LED (ORANGE)	SLI-343DCW(STU)
D 2514(A,284,147)	LED (ORANGE)	SLI-343DCW(STU)
D 2516(A,306,147)	LED (ORANGE)	SLI-343DCW(STU)
D 2518(A,134,147)	LED (ORANGE)	SLI-343DCW(STU)
D 2520(A,16,186)	LED (BLUE)	SLR-343BBT(HJKL)
D 2522(A,112,147)	LED (ORANGE)	SLI-343DCW(STU)
D 2524(A,91,147)	LED (ORANGE)	SLI-343DCW(STU)
J 2501	JUMPER WIRE	D20PDD1715E
S 2501(A,36,119)	ROTARY ENCODER	ASX7031
S 2551(A,154,141)	SWITCH	VSG1024
S 2552(A,181,141)	SWITCH	VSG1024
S 2553(A,202,141)	SWITCH	VSG1024
S 2554(A,224,141)	SWITCH	VSG1024
S 2555(A,245,141)	SWITCH	VSG1024
S 2556(A,267,141)	SWITCH	VSG1024
S 2557(A,288,141)	SWITCH	VSG1024
S 2558(A,310,141)	SWITCH	VSG1024
S 2561(A,74,117)	SWITCH	VSG1024
S 2562(A,106,91)	SWITCH	VSG1024
S 2563(A,120,91)	SWITCH	VSG1024
S 2564(A,135,91)	SWITCH	VSG1024
S 2565(A,150,91)	SWITCH	VSG1024
S 2566(A,165,91)	SWITCH	VSG1024
S 2567(A,179,91)	SWITCH	VSG1024
S 2571(A,15,179)	SWITCH	VSG1024
S 2572(A,18,142)	SWITCH	VSG1024
S 2573(A,33,142)	SWITCH	VSG1024
S 2574(A,48,142)	SWITCH	VSG1024
S 2575(A,90,141)	SWITCH	VSG1024
S 2576(A,116,141)	SWITCH	VSG1024
S 2577(A,138,141)	SWITCH	VSG1024
2501(A,41,205)	17P CABLE HOLDER	51048-1700
RESISTORS		
R 2501(B,151,152)		RS1/16S331J
R 2502(B,184,152)		RS1/16S331J
R 2503(B,194,152)		RS1/16S331J
R 2504(B,216,152)		RS1/16S331J
R 2505(B,237,152)		RS1/16S331J
R 2506(B,259,152)		RS1/16S331J
R 2507(B,280,152)		RS1/16S331J
R 2508(B,302,152)		RS1/16S331J
R 2509(B,142,152)		RS1/16S331J
R 2510(B,9,186)		RS1/16S391J
R 2511(B,119,152)		RS1/16S331J
R 2512(B,87,151)		RS1/16S331J
R 2513(B,160,103)		RS1/16S0R0J
R 2551(B,149,141)		RS1/16S472J
R 2552(B,173,141)		RS1/16S681J
R 2553(B,194,141)		RS1/16S821J
R 2554(B,216,141)		RS1/16S122J
R 2555(B,237,141)		RS1/16S162J
R 2556(B,258,141)		RS1/16S272J
R 2557(B,280,141)		RS1/16S512J
R 2558(B,301,142)		RS1/16S133J
R 2561(B,77,113)		RS1/16S472J
R 2562(B,106,98)		RS1/16S681J
R 2563(B,117,90)		RS1/16S821J
R 2564(B,132,90)		RS1/16S122J
R 2565(B,145,90)		RS1/16S162J
R 2566(B,160,90)		RS1/16S272J
R 2567(B,175,90)		RS1/16S512J
R 2571(B,12,181)		RS1/16S472J
R 2572(B,18,146)		RS1/16S681J
R 2573(B,30,142)		RS1/16S821J
R 2574(B,45,142)		RS1/16S122J
R 2575(B,87,141)		RS1/16S162J
R 2576(B,106,143)		RS1/16S272J
R 2577(B,130,141)		RS1/16S512J
CAPACITORS		
C 2501(B,148,108)		CKSRYB103K50
C 2502(B,36,129)		CKSRYB103K50
C 2503(B,33,129)		CKSRYB103K50
C 2551(B,151,141)		CKSRYB102K50
C 2561(B,79,113)		CKSRYB102K50
C 2571(B,18,181)		CKSRYB102K50
O	**HEADPHONE ASSY**	
MISCELLANEOUS		
KN2851(A,13,54)	WRAPPING TERMINAL	VNF1084
CN2851(A,19,70)	4P JUMPER CONNECTOR	52147-0410
2851(A,15,14)	PHONE JACK	AKN7029
RESISTORS		
R 2851(B,20,26)		RS1/16S102J
R 2852(B,16,27)		RS1/16S0R0J
CAPACITORS		
C 2851(B,19,42)		CKSRYB392K50
C 2852(B,11,29)		CKSRYB392K50
C 2853(B,10,40)		CCSRCH471J50
C 2854(B,13,43)		CKSRYB103K50
C 2855(B,13,45)		CKSRYB104K16

Mark	No.	Description	Part No.
P		**FRONT-IN ASSY**	
		MISCELLANEOUS	
	IC	2701(B,36,55) OP-AMP IC	BA4560RF
	Q	2651(B,116,47) CHIP TRANSISTOR	HN1C01FU
	D	2701(B,29,62) DIODE	DAN217
	D	2702(B,33,32) DIODE	UDZS5R1(B)
	D	2703(B,31,29) DIODE	UDZS5R1(B)
	D	2704(B,28,46) DIODE	UDZS5R1(B)
	L	2653(B,117,59) INDUCTOR	CTF1385
	L	2671(B,143,58) INDUCTOR	CTF1385
	L	2681(B,92,65) CHIP SOLID INDUCTOR	QTL1013
	L	2752(B,68,60) CHIP FERRITE BEADS	VTL1169
	L	2753(B,72,55) CHIP FERRITE BEADS	VTL1169
	JA	2651(A,109,69) PIN JACK (4P)	XKX3003
	JA	2652(A,88,77) OPTICAL IN MODULE	GP1FM513RZ
	JA	2701(A,45,73) JACK	RKN1004
	JA	2751(A,65,76) USB CONNECTOR	XKP3086
	KN	2651(A,156,42) WRAPPING TERMINAL	VNF1084
	KN	3351(A,44,37) WRAPPING TERMINAL	VNF1084
	CN	2651(A,40,28) CONNECTOR	CKS3382
	CN	2652(A,67,42) CONNECTOR	B4B-PH
		RESISTORS	
	R	2651(B,121,58)	RS1/16S0R0J
	R	2652(B,107,57)	RS1/16S0R0J
	R	2653(B,128,58)	RS1/16S104J
	R	2654(B,111,56)	RS1/16S104J
	R	2655(B,128,54)	RS1/16S221J
	R	2656(B,107,52)	RS1/16S221J
	R	2657(B,124,54)	RS1/16S104J
	R	2658(B,113,56)	RS1/16S104J
	R	2659(B,122,46)	RS1/16S221J
	R	2660(B,113,51)	RS1/16S221J
	R	2661(B,118,46)	RS1/16S153J
	R	2662(B,113,43)	RS1/16S153J
	R	2663(B,120,46)	RS1/16S101J
	R	2664(B,112,48)	RS1/16S101J
	R	2665(B,100,46)	RS1/16S470J
	R	2666(B,100,39)	RS1/16S470J
	R	2668(B,131,57)	RS1/16S0R0J
	R	2671(B,141,62)	RS1/16S750J
	R	2672(B,145,62)	RS1/16S0R0J
	R	2673(B,152,59)	RS1/16S750J
	R	2674(B,150,64)	RS1/16S750J
	R	2675(B,152,55)	RS1/16S0R0J
	R	2676(B,148,58)	RS1/16S0R0J
	R	2681(B,85,65)	RS1/16S101J
	R	2701(B,41,65)	RS1/16S102J
	R	2702(B,38,68)	RS1/16S682J
	R	2703(B,40,69)	RS1/16S104J
	R	2704(B,30,66)	RS1/16S101J
	R	2705(B,34,62)	RS1/16S104J
	R	2706(B,30,57)	RS1/16S472J
	R	2707(B,38,62)	RS1/16S333J
	R	2708(B,41,61)	RS1/16S101J
	R	2709(B,30,48)	RS1/16S472J
	R	2710(B,34,48)	RS1/16S333J
	R	2711(B,36,48)	RS1/16S101J
	R	2712(B,34,28)	RS1/16S104J
	R	2714(B,34,38)	RS1/16S102J
	R	2751(B,65,60)	RS1/16S0R0J
	R	2752(B,63,60)	RS1/16S0R0J
		CAPACITORS	
	C	2651(B,126,58)	CCSRCH221J50
	C	2652(B,109,56)	CCSRCH221J50
	C	2653(A,125,47)	CEAT100M50
	C	2654(A,109,46)	CEAT100M50
	C	2655(B,126,54)	CCSRCH101J50
	C	2656(B,115,56)	CCSRCH101J50
	C	2659(A,125,39) ELECT. CAPACITOR	CEAT470M25
	C	2660(A,109,39) ELECT. CAPACITOR	CEAT470M25
	C	2661(B,113,40)	CKSRYB103K50
	C	2662(B,115,37)	CKSRYB103K50
	C	2663(A,102,46) ELECT. CAPACITOR	CEAT330M25
	C	2664(A,102,40) ELECT. CAPACITOR	CEAT330M25
	C	2665(B,152,46)	CKSRYB103K50
	C	2666(B,150,46)	CKSRYB223K50
	C	2671(B,130,61)	CKSRYB103K50
	C	2672(B,143,62)	CKSRYB102K50
	C	2673(B,154,57)	CKSRYB104K16
	C	2674(B,156,46)	CKSRYB103K50
	C	2675(B,158,46)	CKSRYB223K50
	C	2681(B,89,65)	CKSRYB104K16
	C	2701(B,42,69)	CCSRCH471J50
	C	2702(A,36,66)	CEAT100M50
	C	2703(B,32,62)	CCSRCH101J50
	C	2704(B,36,62)	CCSRCH330J50
	C	2705(B,32,48)	CCSRCH330J50
	C	2706(A,34,36)	CEAT100M50
	C	2707(B,48,43)	CKSRYB103K50
	C	2709(B,52,43)	CKSRYB223K50
	C	2712(A,35,44)	CEAT100M50
	C	2713(B,40,57)	CKSRYB103K50
	C	2714(B,40,53)	CKSRYB103K50
	C	2715(A,49,59)	CEAT100M50
	C	2716(A,49,53)	CEAT100M50
	C	2718(B,40,38)	CKSRYB102K50
	C	2719(B,40,36)	CCSRCH221J50
	C	2753(B,68,56)	CKSRYB104K16
	C	2755(A,68,51)	CEAT101M16
	C	2756(B,73,51)	CKSRYB104K16
	C	2757(B,73,46)	CCSRCH471J50
Q		**PRIMARY ASSY**	
		MISCELLANEOUS	
⚠	IC	2001(A,305,99) REGULATOR IC	NJM78M56FA
	Q	2001(B,281,60) DIGITAL TR (SC-70)	RT1N431M
	D	2001(B,276,60) DIODE	1SS355
	D	2002(B,276,65) DIODE	1SS355
⚠	D	2003(B,296,87) BRIDGE DIODE	S1WB(A)60SD
	D	2004(B,304,75) DIODE	1SS355
	D	2006(B,308,70) DIODE	UDZS5R1(B)
⚠	L	2001(A,244,24) LINE FILTER	XTF3004
	H	2001(A,243,46) FUSE CLIP	AKR7001
	H	2002(A,223,46) FUSE CLIP	AKR7001

Mark	No.	Description	Part No.
	KN2001(A,194,19)	SCREW PLATE	VNE1948
⚠	RY2001(A,251,58)	JOE LOW POWER RELAY	ASR7013
⚠	T 2001(A,273,84)	STANDBY TRANSFORMER	ATT7040
	CN2001(A,301,115)	9P SOCKET	KP200TA9L
	CN2002(A,246,115)	5P SOCKET	KP200TA5L
⚠	CN2003(A,225,25)	AC CORD SOCKET	RKP1751

RESISTORS

	R 2002(A,279,68)	CARBON FILM	RD1/4MUF101J
	R 2003(B,305,70)		RS1/16S103J
	R 2004(B,302,70)		RS1/16S332J

CAPACITORS

⚠	C 2002(A,266,26)	FILM (0.01, 275 V)	ACE7013
⚠	C 2003(A,251,52)	10000P, 250 V	XCG3009
	C 2004(A,290,106)	FILM CAPACITOR	CQMBA103J50
	C 2009(A,303,88)	ELECT. CAPACITOR	CEAT332M25
	C 2010(A,309,106)		CEAT221M25
	C 2011(B,310,85)		CKSRYB103K50

R TRANS 1 ASSY

TRANS 1 Assy has no service part.

SECONDARY ASSY

MISCELLANEOUS

	Y 9	AWG18 BOARD IN	ADX7502
	Y 10	AWG18 BOARD IN	ADX7503
	Y 11	AWG18 BOARD IN	ADX7504
	Y 12	AWG18 BOARD IN	ADX7505

S TRANS 2-1 ASSY

MISCELLANEOUS

⚠	IC 3251(A,228,215)	PROTECTOR (7A)	AEK7021
⚠	IC 3252(A,239,164)	PROTECTOR (7A)	AEK7021
	Q 3251(B,244,224)	CHIP TRANSISTOR	RN1901
	Q 3252(B,253,224)	TRANSISTOR	UMD2N
	Q 3253(B,261,224)	TRANSISTOR	UMD2N
⚠	D 3251(B,234,181)	BRIDGE DIODE	S1WB(A)60SD
	D 3253(B,236,216)	DIODE	UDZS8R2(B)
	D 3254(B,263,217)	DIODE	UDZS7R5(B)
	D 3255(B,233,216)	DIODE	UDZS9R1(B)
	D 3256(B,263,219)	DIODE	UDZS8R2(B)
	D 3257(B,233,223)	DIODE	UDZS9R1(B)
	D 3258(B,258,218)	DIODE	UDZS8R2(B)
	D 3259(B,238,223)	DIODE	UDZS6R8(B)
	D 3260(B,258,220)	DIODE	UDZS6R8(B)
	D 3261(B,240,220)	DIODE	UDZS12(B)
	D 3262(B,253,220)	DIODE	UDZS12(B)
	D 3263(B,238,218)	DIODE	UDZS13(B)
	D 3264(B,253,218)	DIODE	UDZS15(B)
	D 3265(B,257,226)	DIODE	UDZS13(B)
	D 3266(B,267,227)	DIODE	UDZS13(B)
	J 3251	JUMPER WIRE	D20PDY0610E
	3251(A,261,193)	6P CABLE HOLDER	51048-0600

Mark	No.	Description	Part No.

RESISTORS

⚠	R 3253(A,248,192)	METAL OXIDE	RS1LMF472J
⚠	R 3254(A,263,212)	METAL OXIDE	RS1LMF472J
⚠	R 3255(A,245,195)	CARBON FILM	RD1/2LMF332J
⚠	R 3256(A,259,215)	CARBON FILM	RD1/2LMF332J

CAPACITORS

	C 3253(A,243,186)	ELECT. CAPACITOR	CEAT471M2A
	C 3254(A,253,172)	ELECT. CAPACITOR	CEAT471M2A
	C 3255(A,240,202)	ELECT. CAPACITOR	CEAT101M63
	C 3256(A,240,213)	ELECT. CAPACITOR	CEAT101M63
	C 3257(A,269,190)	ELECT. CAPACITOR	CEAT221M2A
	C 3258(A,262,201)	ELECT. CAPACITOR	CEAT221M2A

T DIODE 1 ASSY

MISCELLANEOUS

⚠	D 3301(A,175,164)	DIODE	D5SBA20(B)
⚠	D 3302(A,175,199)	DIODE	D5SBA20(B)

RESISTORS

⚠	R 3301(A,194,172)	CARBON FILM	RD1/4MUF100J

CAPACITORS

	C 3301(A,191,182)	FILM CAPACITOR	CFTLA104J2A
	C 3302(A,196,177)	FILM CAPACITOR	CFTLA104J2A

U VH TR ASSY

MISCELLANEOUS

⚠	IC 3351(A,177,136)	IC PROTECTOR	ICP-N15
⚠	IC 3352(A,177,152)	IC PROTECTOR	ICP-N15
	Q 3351(B,172,130)	CHIP TRANSISTOR	2SA1514K
⚠	Q 3352(A,162,135)	TRANSISTOR	2SB1186A
⚠	Q 3353(A,162,150)	TRANSISTOR	2SD1763A
	Q 3354(B,172,145)	CHIP TRANSISTOR	2SC3906K
⚠	D 3351(B,173,141)	DIODE	1SR154-400
⚠	D 3352(B,176,157)	DIODE	1SR154-400
	CN3351(A,184,138)	6P JUMPER CONNECTOR	52147-0610

RESISTORS

	R 3351(B,179,129)		RS1/16S471J
	R 3352(B,168,128)		RS1/16S100J
	R 3353(B,168,143)		RS1/16S100J
	R 3354(B,177,144)		RS1/16S471J

V BRIDGE 1 ASSY

MISCELLANEOUS

	CN5811(A,46,130)	23P PLUG	XKP3071
	CN5812(A,46,105)	23P PLUG	XKP3071
	5811(A,8,101)	PCB BINDER	VEF1040

Mark	No.	Description	Part No.

W PS/SP ASSY

MISCELLANEOUS

	Q	3001(B,161,85) CHIP TRANSISTOR	DTC114TUA
	Q	3002(B,229,97) CHIP TRANSISTOR	DTC114TUA
	Q	3003(B,247,90) CHIP TRANSISTOR	DTC114TUA
	Q	3004(B,290,84) CHIP TRANSISTOR	DTC114TUA
	Q	3005(B,212,99) CHIP TRANSISTOR	DTC114TUA
	D	3001(B,168,80) DIODE	1SS355
	D	3002(B,165,80) DIODE	1SS355
	D	3003(B,216,88) DIODE	1SS355
	D	3004(B,213,88) DIODE	1SS355
	D	3005(B,247,82) DIODE	1SS355
	D	3006(B,244,82) DIODE	1SS355
	D	3007(B,291,79) DIODE	1SS355
	D	3008(B,289,79) DIODE	1SS355
	D	3009(B,217,99) DIODE	1SS355
	D	3010(B,215,99) DIODE	1SS355
	L	3011(A,188,78) COIL	ATH1053
	L	3021(A,146,69) COIL	ATH1053
	L	3031(A,199,83) COIL	ATH1053
	L	3041(A,258,82) COIL	ATH1053
	L	3051(A,236,90) COIL	ATH1053
	L	3061(A,299,74) COIL	ATH1053
	L	3071(A,280,84) COIL	ATH1053
	J	3009(A,174,89) CONNECTOR ASSY	PF13PG-R07
	KN	3001(A,318,64) WRAPPING TERMINAL	VNF1084
	RY	3001(A,163,81) RELAY	ASR7001
	RY	3002(A,211,89) RELAY	ASR7001
	RY	3003(A,242,83) RELAY	ASR7001
	RY	3004(A,286,82) RELAY	ASR7001
	RY	3005(A,219,103) RELAY	ASR7001
	CN	3001(A,190,33) SPEAKER TERMINAL 8-P	AKE7119
	CN	3002(A,274,33) SPEAKER TERMINAL 6-P	AKE7108
	CN	3007(A,313,90) 5P PLUG	KM200TA5
	CN	3008(A,313,145) 9P PLUG	KM200TA9
	Y	13 AWG14 BOARD IN	ADX7512
	Y	8 AWG14 BOARD IN	ADX7512

RESISTORS

⚠	R	3011(A,187,68) METAL OXIDE	RS1/2LMF4R7J
⚠	R	3012(A,175,64) METAL OXIDE	RS1LMF100J
⚠	R	3013(A,193,94) METAL OXIDE	RS2LMF331J
⚠	R	3021(A,148,79) METAL OXIDE	RS1/2LMF4R7J
⚠	R	3022(A,152,51) METAL OXIDE	RS1LMF100J
⚠	R	3023(A,188,97) METAL OXIDE	RS2LMF331J
⚠	R	3031(A,196,87) METAL OXIDE	RS1/2LMF4R7J
⚠	R	3032(A,194,67) METAL OXIDE	RS1LMF100J
⚠	R	3041(A,254,82) METAL OXIDE	RS1/2LMF4R7J
⚠	R	3042(A,267,67) METAL OXIDE	RS1LMF100J
⚠	R	3051(A,240,93) METAL OXIDE	RS1/2LMF4R7J
⚠	R	3052(A,237,79) METAL OXIDE	RS1LMF100J
⚠	R	3061(A,309,63) METAL OXIDE	RS1/2LMF4R7J
⚠	R	3062(A,313,73) METAL OXIDE	RS1LMF100J
⚠	R	3071(A,280,88) METAL OXIDE	RS1/2LMF4R7J
⚠	R	3072(A,268,94) METAL OXIDE	RS1LMF100J
	R	3101(A,222,115) CARBON FILM	RD1/4MUF473J
	R	3102(A,252,115) CARBON FILM	RD1/4MUF473J

CAPACITORS

	C	3001(A,164,89)	CEAT101M50
	C	3011(A,190,60)	CFTLA104J50
	C	3012(A,203,53)	CFTLA104J50
	C	3013(A,190,42) FILM CAPACITOR	CQMBA103J50
	C	3021(A,157,48)	CFTLA104J50
	C	3022(A,157,39)	CFTLA104J50
	C	3023(A,169,42) FILM CAPACITOR	CQMBA103J50
	C	3031(A,205,66)	CFTLA104J50
	C	3032(A,200,60)	CFTLA104J50
	C	3033(A,211,42) FILM CAPACITOR	CQMBA103J50
	C	3041(A,257,63)	CFTLA104J50
	C	3042(A,253,57)	CFTLA104J50
	C	3043(A,253,42) FILM CAPACITOR	CQMBA103J50
	C	3051(A,224,70)	CFTLA104J50
	C	3052(A,230,70)	CFTLA104J50
	C	3053(A,232,42) FILM CAPACITOR	CQMBA103J50
	C	3061(A,308,58)	CFTLA104J50
	C	3062(A,302,53)	CFTLA104J50
	C	3063(A,295,42) FILM CAPACITOR	CQMBA103J50
	C	3071(A,274,70)	CFTLA104J50
	C	3072(A,279,65)	CFTLA104J50
	C	3073(A,274,42) FILM CAPACITOR	CQMBA103J50
	C	3091(B,181,50)	CKSRYB222K50
	C	3092(B,179,50)	CKSRYB222K50
	C	3093(B,265,50)	CKSRYB222K50
	C	3094(B,263,50)	CKSRYB222K50
	C	3096(B,318,55)	CKSRYB222K50
	C	3101(A,212,137)	ACH7255
	C	3102(A,258,137)	ACH7255

X TRANS 2-2 ASSY

MISCELLANEOUS

	H	3401(A,120,100) FUSE CLIP	AKR7001
	H	3402(A,98,100) FUSE CLIP	AKR7001
	H	3403(A,120,87) FUSE CLIP	AKR7001
	H	3404(A,98,87) FUSE CLIP	AKR7001
	H	3405(A,120,74) FUSE CLIP	AKR7001
	H	3406(A,98,74) FUSE CLIP	AKR7001
	H	3407(A,119,57) FUSE CLIP	AKR7001
	H	3408(A,97,57) FUSE CLIP	AKR7001
	H	3409(A,120,45) FUSE CLIP	AKR7001
	H	3410(A,98,45) FUSE CLIP	AKR7001
	J	3401(A,132,97) CONNECTOR ASSY	PF12PG-R40

Y TRANS SIDE ASSY

MISCELLANEOUS

	J	3201 JUMPER WIRE	D20PDY0410E
	CN	3202(A,60,8) CONNECTOR	CKS3382
	CN	3203(A,319,21) CONNECTOR	B13B-PH
		3201(A,84,28) 4P CABLE HOLDER	51048-0400

Mark	No.	Description	Part No.

Z LOCAL P-SUPPLY ASSY

MISCELLANEOUS

⚠	IC	3502(A,120,181) PROTECTOR (1.6A)	AEK7012
⚠	IC	3504(A,80,176) IC	NJM78M05FA
⚠	IC	3505(A,80,226) REGULATOR IC	NJM78M56FA
⚠	IC	3506(A,80,201) IC	NJM79M05FA
⚠	IC	3510(A,111,238) PROTECTOR (1.6A)	AEK7012
	Q	3501(B,110,149) TRANSISTOR	UMD2N
⚠	Q	3502(A,80,151) TRANSISTOR	2SD1763A
	Q	3503(B,144,140) DIGITAL TRANSISTOR	DTC124EUA
	Q	3504(B,109,230) CHIP TRANSISTOR	RSR015P03
	Q	3505(B,115,232) DIGITAL TRANSISTOR	DTC124EUA
⚠	D	3501(B,120,163) DIODE	1SR154-400
⚠	D	3502(B,124,163) DIODE	1SR154-400
⚠	D	3503(B,128,163) DIODE	1SR154-400
	D	3504(B,136,146) DIODE	UDZS6R2(B)
	D	3505(B,138,146) DIODE	UDZS6R2(B)
	D	3506(B,141,146) DIODE	UDZS6R2(B)
	D	3507(B,143,146) DIODE	UDZS6R2(B)
	D	3508(B,142,180) DIODE	UDZS6R2(B)
⚠	D	3509(B,108,160) DIODE	1SR154-400
⚠	D	3510(B,113,160) DIODE	1SR154-400
	D	3511(B,112,132) DIODE	UDZS27(B)
	D	3512(A,117,196) DIODE	D3SBA20(B)
⚠	D	3513(B,86,180) CHIP DIODE	RB501V-40
⚠	D	3514(A,95,181) DIODE	MTZJ6R2(B)
	D	3515(B,87,236) CHIP DIODE	RB501V-40
	D	3516(B,87,204) CHIP DIODE	RB501V-40
	D	3529(B,80,196) DIODE	1SS355
	J	3502 9P JUMPER WIRE	D20PDY0915E
	J	3503(A,152,132) CONNECTOR ASSY	PF05PG-Q15
	J	3504(A,160,239) CONNECTOR ASSY	PF10PG-R07
	J	3505(A,138,232) CONNECTOR ASSY	PF09PG-R37
	J	3506 JUMPER WIRE	D20PDY0410E
	CN3501	(A,141,151) CONNECTOR	B12B-PH
		3502(A,149,215) 9P CABLE HOLDER	51048-0900
		3506(A,150,167) 4P CABLE HOLDER	51048-0400

RESISTORS

	R	3501(B,120,152)	RS1/16S473J
⚠	R	3503(A,127,156) CARBON FILM	RD1/4MUF391J
	R	3504(B,111,142)	RS1/16S472J
	R	3505(B,108,142)	RS1/16S101J
	R	3506(B,140,139)	RS1/16S222J
⚠	R	3508(A,134,181) CARBON FILM	RD1/4MUF4R7J
	R	3511(B,106,235)	RS1/16S103J
	R	3512(B,113,235)	RS1/16S101J

CAPACITORS

	C	3501(A,150,148) FILM CAPACITOR	CQMBA104J50
	C	3502(A,122,168) ELECT. CAPACITOR	CEANP101M35
	C	3503(A,118,157) ELECT. CAPACITOR	CEAT101M35
	C	3504(A,123,147)	CEAT221M35
	C	3505(A,139,179)	CEAT101M16
	C	3506(A,133,145)	CEAT470M50
	C	3508(B,122,152)	CKSRYB103K50
	C	3510(A,110,171) ELECT. CAPACITOR	CEANP102M16
	C	3511(A,107,154) ELECT. CAPACITOR	CEAT102M35
	C	3512(A,109,135)	CEAT100M50
	C	3513(B,83,149)	CKSRYB102K50
	C	3514(A,145,136)	CEAT100M50
	C	3515(A,137,140) ELECT. CAPACITOR	CEANP470M25
	C	3516(A,122,187) FILM CAPACITOR	CQMBA104J50
	C	3517(B,83,175)	CKSRYB103K50
	C	3518(A,85,189)	CEAT221M16
	C	3519(A,117,208) ELECT. CAPACITOR	CEAT682M16
	C	3520(A,134,208) ELECT. CAPACITOR	CEAT222M16
	C	3521(B,83,224)	CKSRYB103K50
	C	3522(B,87,201)	CKSRYB103K50
	C	3523(A,88,227)	CEAT101M16
	C	3524(A,85,214)	CEAT101M16

AA DC/DC ASSY

MISCELLANEOUS

⚠	IC	651 (A,43,196) REGULATOR IC	PQ1CG3032FZ
	Q	651 (A,65,206) TRANSISTOR	2SD1858X
⚠	D	651 (B,45,207) DIODE	RB051L-40
⚠	D	652 (B,66,211) DIODE	UDZS7R5(B)
⚠	D	653 (A,38,152) DIODE	D3SBA20(B)
⚠	D	654 (A,68,231) DIODE	MTZJ6R2(B)
	L	651 (A,50,212) INDUCTOR	ATH7020
	KN651	(A,40,181) SCREW PLATE	VNE1948
	CN651	(A,70,221) 3P TOP POST	B3B-EH
	CN652	(A,70,166) 4P JUMPER CONNECTOR	52147-0410
		651 (A,52,146) PCB BINDER	VEF1040

RESISTORS

⚠	R	651 (A,64,164) CARBON FILM	RD1/4MUF4R7J
	R	652 (B,39,194) CHIP METAL FILM R	RN1/16SE1800D
	R	653 (B,38,195)	RN1/16SE3001D
	R	654 (B,41,192)	RN1/16SE1001D
	R	655 (B,64,210)	RS1/16S302J
	R	656 (B,62,210)	RS1/16S101J

CAPACITORS

	C	651 (A,68,150) FILM CAPACITOR	CQMBA104J50
	C	654 (A,59,176) ELECT. CAPACITOR	CEAT103M16
	C	655 (A,67,189) ELECT. CAPACITOR	CEHAZL102M16
	C	657 (A,55,226) ELECT. CAPACITOR	CEHAZL102M6R3
	C	658 (A,67,214)	CEAT101M16
	C	659 (A,69,206)	CEAT101M16

AB IR I/O ASSY

MISCELLANEOUS

	Q	3751(B,34,66) TRANSISTOR	2SD1664
	D	3752(B,41,60) DIODE	UDZS10(B)
	KN3751	(A,40,91) SCREW PLATE	VNE1948
	CN3701	(A,58,46) 10P CONNECTOR	VKN1241
	CN3702	(A,74,44) 23P SOCKET	XKP3082
	CN3703	(A,28,43) CONNECTOR	CKS3376

RESISTORS

	R	3703(B,25,84)	RS1/16S0R0J
	R	3752(A,38,66) CARBON FILM RESISTOR	RD1/4MUF391J
	R	3755(B,48,62)	RS1/16S0R0J

Mark	No.	Description	Part No.
CAPACITORS			
	C	3701(B,49,81)	CKSRYB104K50
	C	3702(B,27,84)	CCSRCH471J50
	C	3752(A,38,61)	CEAT101M16
	C	3753(B,26,71)	CKSRYB103K50
	C	3754(B,24,71)	CKSRYB104K50
	C	3755(B,28,71)	CKSRYB105K10
	C	3756(B,67,56)	CKSRYB103K50
	C	3757(B,71,58)	CCSRCH471J50

AC VIDEO CONNECT ASSY

Mark	No.	Description	Part No.
MISCELLANEOUS			
	CN3801(A,288,240)	CONNECTOR POST	S9B-PH
	CN3802(A,298,175)	21P PLUG	XKP3070
	CN3803(A,305,198)	15P PLUG	XKP3067
	CN3804(A,308,222)	13P PLUG	XKP3066

POWER AMP ASSY

Mark	No.	Description	Part No.
MISCELLANEOUS			
	J 3	JUMPER WIRE	D20PDY0525E
	Y 5	LEAD WITH HOUSING	ADX7404
	Y 4	LEAD WITH HOUSING	ADX7460
	Y 3	LEAD WITH HOUSING	ADX7458
	Y 2	LEAD WITH HOUSING	ADX7457
	Y 1	LEAD WITH HOUSING	ADX7459
	Y 6	LEAD WITH HOUSING	ADX7498

AD POWER AMP-L ASSY

Mark	No.	Description	Part No.
MISCELLANEOUS			
⚠	IC 5001(A,174,135)	DARLINGTON POWER IC	SAP17N(OY)
⚠	IC 5002(A,208,135)	DARLINGTON POWER IC	SAP17P(OY)
⚠	IC 5101(A,106,135)	DARLINGTON POWER IC	SAP17N(OY)
⚠	IC 5102(A,140,135)	DARLINGTON POWER IC	SAP17P(OY)
⚠	IC 5201(A,242,135)	DARLINGTON POWER IC	SAP17N(OY)
⚠	IC 5202(A,276,135)	DARLINGTON POWER IC	SAP17P(OY)
⚠	IC 5601(A,310,135)	DARLINGTON POWER IC	SAP17N(OY)
	Q 5001(B,186,207)	CHIP TRANSISTOR	2SD2704K
	Q 5002(B,174,194)	TRANSISTOR	IMT4
	Q 5003(B,188,198)	CHIP TRANSISTOR	2SA1514K
	Q 5004(A,185,184)	TRANSISTOR	2SA1145
	Q 5005(A,161,191)	TRANSISTOR	2SC2705
	Q 5041(B,149,195)	CHIP TR	2SA1255
	Q 5101(B,132,207)	CHIP TRANSISTOR	2SD2704K
	Q 5102(B,120,194)	TRANSISTOR	IMT4
	Q 5103(B,134,198)	CHIP TRANSISTOR	2SA1514K
	Q 5104(A,131,184)	TRANSISTOR	2SA1145
	Q 5105(A,108,191)	TRANSISTOR	2SC2705
	Q 5141(B,91,201)	CHIP TR	2SA1255
	Q 5201(B,274,206)	CHIP TRANSISTOR	2SD2704K
	Q 5202(B,262,193)	TRANSISTOR	IMT4
	Q 5203(B,276,197)	CHIP TRANSISTOR	2SA1514K
	Q 5204(A,273,183)	TRANSISTOR	2SA1145
	Q 5205(A,250,191)	TRANSISTOR	2SC2705
	Q 5241(B,238,197)	CHIP TR	2SA1255

Mark	No.	Description	Part No.
	D 5001(B,190,188)	CHIP ZENER DIODE	UDZS3R6(B)
	D 5002(B,188,188)	DIODE	1SS355
	D 5003(B,180,184)	DIODE	1SS355
	D 5004(B,172,184)	DIODE	1SS355
	D 5005(B,177,184)	DIODE	UDZS4R7(B)
	D 5006(B,175,184)	DIODE	UDZS4R7(B)
	D 5041(B,149,174)	DIODE	1SS355
	D 5042(B,151,174)	DIODE	1SS355
	D 5043(B,151,203)	DIODE	1SS355
	D 5044(B,154,171)	DIODE	1SS355
	D 5101(B,137,188)	CHIP ZENER DIODE	UDZS3R6(B)
	D 5102(B,135,188)	DIODE	1SS355
	D 5103(B,126,184)	DIODE	1SS355
	D 5104(B,119,184)	DIODE	1SS355
	D 5105(B,124,184)	DIODE	UDZS4R7(B)
	D 5106(B,121,184)	DIODE	UDZS4R7(B)
	D 5141(B,91,188)	DIODE	1SS355
	D 5142(B,95,188)	DIODE	1SS355
	D 5143(B,95,202)	DIODE	1SS355
	D 5144(B,97,188)	DIODE	1SS355
	D 5201(B,279,187)	CHIP ZENER DIODE	UDZS3R6(B)
	D 5202(B,276,187)	DIODE	1SS355
	D 5203(B,268,183)	DIODE	1SS355
	D 5204(B,261,183)	DIODE	1SS355
	D 5205(B,266,183)	DIODE	UDZS4R7(B)
	D 5206(B,263,183)	DIODE	UDZS4R7(B)
	D 5241(B,238,173)	DIODE	1SS355
	D 5242(B,240,173)	DIODE	1SS355
	D 5243(B,240,202)	DIODE	1SS355
	D 5244(B,242,173)	DIODE	1SS355
	CN5001(A,319,200)	13P SOCKET	XKP3077
	CN5002(A,85,214)	11P SOCKET	XKP3076
	CN5003(A,312,191)	PLUG 6-P	KM250NA6L
	CN5004(A,176,224)	CONNECTOR POST	B2B-PH
	5001(A,160,225)	PCB BINDER	VEF1040
RESISTORS			
	R 5001(B,192,202)		RS1/16S102J
	R 5002(B,180,202)		RS1/16S221J
	R 5003(B,177,203)		RS1/16S333J
	R 5004(B,192,205)		RS1/16S103J
	R 5005(B,170,191)		RS1/16S152J
	R 5006(B,168,198)		RS1/16S821J
	R 5007(B,191,197)		RS1/16S2001F
	R 5008(B,179,194)		RS1/16S682J
	R 5009(A,183,193)	CARBON FILM	RD1/2VM473J
	R 5010(B,190,183)		RS1/16S151J
	R 5011(B,188,184)		RN1/16SE1201D
	R 5012(B,162,195)		RS1/16S221J
	R 5013(B,183,150)	CHIP RESISTOR	RS1/16S62R0F
	R 5021(B,176,153)		RS1/16S101J
	R 5022(B,190,153)		RS1/16S101J
⚠	R 5023(A,196,166)	CARBON FILM	RD1/4MUF4R7J
⚠	R 5024(A,162,176)	CARBON FILM	RD1/4MUF4R7J
⚠	R 5025(B,163,156)	CHIP (0.047, 0.5 W)	ACN7132
⚠	R 5026(B,200,156)	CHIP (0.047, 0.5 W)	ACN7132
⚠	R 5027(A,190,166)	RESISTOR (0.18, 5 W)	ACN7121

Mark	No.	Description	Part No.
	R 5029(B,167,203)		RN1/10SE3302D
	R 5030(B,173,203)		RN1/16SE1001D
	R 5031(B,173,205)		RN1/16SE1500D
	R 5032(B,160,195)		RS1/16S151J
	R 5041(B,147,169)		RS1/16S473J
	R 5042(B,149,169)		RS1/16S223J
	R 5043(B,145,169)		RS1/16S471J
	R 5044(B,151,169)		RS1/16S471J
	R 5045(B,151,179)		RS1/16S472J
	R 5046(B,154,179)		RS1/16S472J
	R 5047(B,150,187)		RS1/16S122J
	R 5048(B,151,183)		RS1/16S154J
	R 5049(B,154,183)		RS1/16S103J
	R 5050(B,152,187)		RS1/16S103J
	R 5101(B,139,202)		RS1/16S102J
	R 5102(B,126,202)		RS1/16S221J
	R 5103(B,123,203)		RS1/16S333J
	R 5104(B,139,205)		RS1/16S103J
	R 5105(B,116,191)		RS1/16S152J
	R 5106(B,115,198)		RS1/16S821J
	R 5107(B,138,197)		RS1/16S2001F
	R 5108(B,126,194)		RS1/16S682J
	R 5109(A,130,193)	CARBON FILM	RD1/2VM473J
	R 5110(B,137,183)		RS1/16S151J
	R 5111(B,135,184)		RN1/16SE1201D
	R 5112(B,109,195)		RS1/16S221J
	R 5113(B,115,150)	CHIP RESISTOR	RS1/16S62R0F
	R 5121(B,108,153)		RS1/16S101J
	R 5122(B,129,150)		RS1/16S101J
⚠	R 5123(A,138,166)	CARBON FILM	RD1/4MUF4R7J
⚠	R 5124(A,108,176)	CARBON FILM	RD1/4MUF4R7J
⚠	R 5125(B,99,156)	CHIP (0.047, 0.5 W)	ACN7132
⚠	R 5126(B,136,156)	CHIP (0.047, 0.5 W)	ACN7132
⚠	R 5127(A,132,166)	RESISTOR (0.18, 5 W)	ACN7121
	R 5129(B,113,203)		RN1/10SE3302D
	R 5130(B,119,203)		RN1/16SE1001D
	R 5131(B,119,205)		RN1/16SE1500D
	R 5132(B,106,195)		RS1/16S151J
	R 5141(B,93,184)		RS1/16S473J
	R 5142(B,95,184)		RS1/16S223J
	R 5143(B,91,184)		RS1/16S471J
	R 5144(B,97,184)		RS1/16S471J
	R 5145(B,93,193)		RS1/16S472J
	R 5146(B,96,193)		RS1/16S472J
	R 5147(B,89,196)		RS1/16S122J
	R 5148(B,95,197)		RS1/16S154J
	R 5149(B,97,197)		RS1/16S103J
	R 5150(B,97,202)		RS1/16S103J
	R 5201(B,281,201)		RS1/16S102J
	R 5202(B,268,201)		RS1/16S221J
	R 5203(B,265,202)		RS1/16S333J
	R 5204(B,281,204)		RS1/16S103J
	R 5205(B,258,191)		RS1/16S152J
	R 5206(B,257,198)		RS1/16S821J
	R 5207(B,279,196)		RS1/16S2001F
	R 5208(B,268,193)		RS1/16S682J
	R 5209(A,271,192)	CARBON FILM RESISTOR	RD1/2VM473J
	R 5210(B,278,183)		RS1/16S151J
	R 5211(B,276,183)		RN1/16SE1201D
	R 5212(B,251,195)		RS1/16S221J
	R 5213(B,257,149)	CHIP RESISTOR	RS1/16S62R0F
	R 5221(B,251,153)		RS1/16S101J
	R 5222(B,265,153)		RS1/16S101J
⚠	R 5223(A,280,164)	CARBON FILM	RD1/4MUF4R7J
⚠	R 5224(A,249,175)	CARBON FILM	RD1/4MUF4R7J
⚠	R 5225(B,238,156)	CHIP (0.047, 0.5 W)	ACN7132
⚠	R 5226(B,276,156)	CHIP (0.047, 0.5 W)	ACN7132
⚠	R 5227(A,274,165)	RESISTOR (0.18, 5 W)	ACN7121
	R 5229(B,255,202)		RN1/10SE3302D
	R 5230(B,261,202)		RN1/16SE1001D
	R 5231(B,261,204)		RN1/16SE1500D
	R 5232(B,248,195)		RS1/16S151J
	R 5241(B,237,169)		RS1/16S473J
	R 5242(B,239,169)		RS1/16S223J
	R 5243(B,235,169)		RS1/16S471J
	R 5244(B,241,169)		RS1/16S471J
	R 5245(B,240,180)		RS1/16S472J
	R 5246(B,242,180)		RS1/16S472J
	R 5247(B,240,189)		RS1/16S122J
	R 5248(B,237,180)		RS1/16S154J
	R 5249(B,242,184)		RS1/16S103J
	R 5250(B,240,184)		RS1/16S103J
⚠	R 5292(B,300,156)	CHIP (0.047, 0.5 W)	ACN7132
	R 5613(B,317,154)	CHIP RESISTOR	RS1/16S62R0F
	R 5621(B,312,154)		RS1/16S101J

CAPACITORS

	C 5001(A,183,203)		CEAT4R7M50
	C 5002(B,177,200)		CCSRCH221J50
	C 5004(B,167,194)		CKSRYB102K50
	C 5007(A,195,193)		CEAT101M10
	C 5008(B,164,195)	CERAMIC (4P, 200 V)	ACG7057
	C 5009(A,179,189)	ELECT. CAPACITOR	CEAT100M2A
	C 5011(B,169,142)	CERAMIC (100P, 200 V)	ACG7056
	C 5012(B,197,142)	CERAMIC (100P, 200 V)	ACG7056
	C 5015(B,168,205)		CCSRCH220J50
	C 5016(B,168,207)		CCSRCH220J50
	C 5017(A,172,207)		CEAT331M10
	C 5023(A,190,180)		CEAT100M63
	C 5024(A,166,184)		CEAT100M63
	C 5032(B,162,199)		CKSRYB224K16
	C 5041(A,147,190)		CEANP2R2M50
	C 5051(A,217,183)	ELECT. CAPACITOR	CEAT100M2A
	C 5052(A,222,177)	ELECT. CAPACITOR	CEAT100M2A
	C 5101(A,129,203)		CEAT4R7M50
	C 5102(B,123,200)		CCSRCH221J50
	C 5104(B,113,194)		CKSRYB102K50
	C 5107(A,141,193)		CEAT101M10
	C 5108(B,111,195)	CERAMIC (4P, 200 V)	ACG7057
	C 5109(A,125,189)	ELECT. CAPACITOR	CEAT100M2A
	C 5111(B,101,142)	CERAMIC (100P, 200 V))	ACG7056
	C 5112(B,130,142)	CERAMIC (100P, 200 V)	ACG7056
	C 5115(B,115,205)		CCSRCH220J50
	C 5116(B,115,207)		CCSRCH220J50
	C 5117(A,119,207)		CEAT331M10
	C 5123(A,137,180)		CEAT100M63
	C 5124(A,112,184)		CEAT100M63

Mark	No.	Description	Part No.
	C 5132(B,108,199)		CKSRYB224K16
	C 5141(A,88,191)		CEANP2R2M50
	C 5201(A,271,202)		CEAT4R7M50
A	C 5202(B,265,199)		CCSRCH221J50
	C 5204(B,255,194)		CKSRYB102K50
	C 5207(A,283,192)		CEAT101M10
	C 5208(B,253,195)	CERAMIC (4P, 200 V)	ACG7057
	C 5209(A,267,187)	ELECT. CAPACITOR	CEAT100M2A
	C 5211(B,243,142)	CERAMIC (100P, 200 V)	ACG7056
	C 5212(B,271,142)	CERAMIC (100P, 200 V)	ACG7056
	C 5215(B,257,204)		CCSRCH220J50
	C 5216(B,257,206)		CCSRCH220J50
	C 5217(A,261,206)		CEAT331M10
	C 5223(A,287,181)		CEAT100M63
B	C 5224(A,255,184)		CEAT100M63
	C 5232(B,250,199)		CKSRYB224K16
	C 5241(A,237,192)		CEANP2R2M50
	C 5611(B,307,142)	CERAMIC (100P, 200 V)	ACG7056

AE POSI 1-L ASSY

MISCELLANEOUS

⚠TH4501(A,54,223)	POSISTOR	PTFM04BH222Q2N34B0
J 4501(A,66,220)	CONNECTOR ASSY	PG02KS-E07

AF POSI 2-L ASSY

MISCELLANEOUS

⚠TH4502(A,79,235)	POSISTOR	PTFM04BC222Q2N34B0
J 4502(A,76,223)	CONNECTOR ASSY	PG02KS2E07

AG POWER AMP-R ASSY

MISCELLANEOUS

⚠IC 5301(A,196,111)	DARLINGTON POWER IC	SAP17N(OY)
D ⚠IC 5302(A,162,111)	DARLINGTON POWER IC	SAP17P(OY)
⚠IC 5401(A,128,111)	DARLINGTON POWER IC	SAP17N(OY)
⚠IC 5402(A,94,111)	DARLINGTON POWER IC	SAP17P(OY)
⚠IC 5501(A,264,111)	DARLINGTON POWER IC	SAP17N(OY)
⚠IC 5502(A,230,111)	DARLINGTON POWER IC	SAP17P(OY)
⚠IC 5602(A,298,111)	DARLINGTON POWER IC	SAP17P(OY)
Q 5301(B,186,38)	CHIP TRANSISTOR	2SD2704K
Q 5302(B,176,52)	TRANSISTOR	IMT4
Q 5303(B,187,48)	CHIP TRANSISTOR	2SA1514K
Q 5304(A,185,62)	TRANSISTOR	2SA1145
Q 5305(A,161,55)	TRANSISTOR	2SC2705
E Q 5341(B,146,56)	CHIP TR	2SA1255
Q 5401(B,132,38)	CHIP TRANSISTOR	2SD2704K
Q 5402(B,122,52)	TRANSISTOR	IMT4
Q 5403(B,133,48)	CHIP TRANSISTOR	2SA1514K
Q 5404(A,131,62)	TRANSISTOR	2SA1145
Q 5405(A,108,55)	TRANSISTOR	2SC2705
Q 5441(B,91,45)	CHIP TR	2SA1255
Q 5501(B,275,38)	CHIP TRANSISTOR	2SD2704K
Q 5502(B,266,52)	TRANSISTOR	IMT4
Q 5503(B,277,48)	CHIP TRANSISTOR	2SA1514K
Q 5504(A,274,63)	TRANSISTOR	2SA1145
F Q 5505(A,252,55)	TRANSISTOR	2SC2705
Q 5541(B,239,49)	CHIP TR	2SA1255

Mark	No.	Description	Part No.
	Q 5571(B,223,38)	TRANSISTOR	2SC4081
	Q 5572(B,220,38)	TRANSISTOR	2SC4081
	D 5301(B,191,58)	CHIP ZENER DIODE	UDZS3R6(B)
	D 5302(B,188,58)	DIODE	1SS355
	D 5303(B,180,62)	DIODE	1SS355
	D 5304(B,173,62)	DIODE	1SS355
	D 5305(B,177,62)	DIODE	UDZS4R7(B)
	D 5306(B,175,62)	DIODE	UDZS4R7(B)
	D 5341(B,151,71)	DIODE	1SS355
	D 5342(B,149,71)	DIODE	1SS355
	D 5343(B,150,50)	DIODE	1SS355
	D 5344(B,153,71)	DIODE	1SS355
	D 5401(B,137,58)	CHIP ZENER DIODE	UDZS3R6(B)
	D 5402(B,135,58)	DIODE	1SS355
	D 5403(B,126,62)	DIODE	1SS355
	D 5404(B,119,62)	DIODE	1SS355
	D 5405(B,124,62)	DIODE	UDZS4R7(B)
	D 5406(B,122,62)	DIODE	UDZS4R7(B)
	D 5441(B,95,58)	DIODE	1SS355
	D 5442(B,92,58)	DIODE	1SS355
	D 5443(B,94,41)	DIODE	1SS355
	D 5444(B,97,58)	DIODE	1SS355
	D 5501(B,280,59)	CHIP ZENER DIODE	UDZS3R6(B)
	D 5502(B,277,59)	DIODE	1SS355
	D 5503(B,267,62)	DIODE	1SS355
	D 5504(B,261,62)	DIODE	1SS355
	D 5505(B,265,62)	DIODE	UDZS4R7(B)
	D 5506(B,263,62)	DIODE	UDZS4R7(B)
	D 5541(B,240,71)	DIODE	1SS355
	D 5542(B,238,71)	DIODE	1SS355
	D 5543(B,240,45)	DIODE	1SS355
	D 5544(B,242,73)	DIODE	1SS355
	CN5301(A,319,31)	13P SOCKET	XKP3077
	CN5302(A,85,45)	11P SOCKET	XKP3076
	CN5303(A,312,68)	PLUG 6-P	KM250NA6L
	CN5304(A,143,23)	CONNECTOR POST	B2B-PH
	5002(A,236,21)	PCB BINDER	VEF1040

RESISTORS

	R 5301(B,192,43)		RS1/16S102J
	R 5302(B,180,42)		RS1/16S221J
	R 5303(B,177,41)		RS1/16S333J
	R 5304(B,192,40)		RS1/16S103J
	R 5305(B,170,55)		RS1/16S152J
	R 5306(B,168,47)		RS1/16S821J
	R 5307(B,190,48)		RS1/16S2001F
	R 5308(B,179,54)		RS1/16S682J
	R 5309(A,183,48)	CARBON FILM	RD1/2VM473J
	R 5310(B,191,62)		RS1/16S151J
	R 5311(B,188,62)		RN1/16SE1201D
	R 5312(B,162,51)		RS1/16S221J
	R 5313(B,183,97)	CHIP RESISTOR	RS1/16S62R0F
	R 5321(B,190,93)		RS1/16S101J
	R 5322(B,176,93)		RS1/16S101J
⚠	R 5323(A,196,79)	CARBON FILM	RD1/4MUF4R7J
⚠	R 5324(A,161,70)	CARBON FILM	RD1/4MUF4R7J
⚠	R 5325(B,203,91)	CHIP (0.047, 0.5 W)	ACN7132
⚠	R 5326(B,166,91)	CHIP (0.047, 0.5 W)	ACN7132
⚠	R 5327(A,172,80)	RESISTOR (0.18, 5 W)	ACN7121

Mark	No.	Description	Part No.
R	5329(B,168,44)		RN1/10SE3302D
R	5330(B,173,45)		RN1/16SE1001D
R	5331(B,173,43)		RN1/16SE1500D
R	5332(B,160,51)		RS1/16S151J
R	5341(B,150,75)		RS1/16S473J
R	5342(B,148,75)		RS1/16S223J
R	5343(B,153,75)		RS1/16S471J
R	5344(B,146,75)		RS1/16S471J
R	5345(B,152,65)		RS1/16S472J
R	5346(B,149,65)		RS1/16S472J
R	5347(B,145,62)		RS1/16S122J
R	5348(B,148,61)		RS1/16S154J
R	5349(B,150,61)		RS1/16S103J
R	5350(B,150,55)		RS1/16S103J
R	5401(B,139,43)		RS1/16S102J
R	5402(B,126,42)		RS1/16S221J
R	5403(B,123,41)		RS1/16S333J
R	5404(B,139,40)		RS1/16S103J
R	5405(B,116,55)		RS1/16S152J
R	5406(B,114,47)		RS1/16S821J
R	5407(B,137,48)		RS1/16S2001F
R	5408(B,126,54)		RS1/16S682J
R	5409(A,129,48)	CARBON FILM	RD1/2VM473J
R	5410(B,137,62)		RS1/16S151J
R	5411(B,135,62)		RN1/16SE1201D
R	5412(B,109,51)		RS1/16S221J
R	5413(B,115,97)	CHIP RESISTOR	RS1/16S62R0F
R	5421(B,128,93)		RS1/16S101J
R	5422(B,108,93)		RS1/16S101J
⚠R	5423(A,138,80)	CARBON FILM	RD1/4MUF4R7J
⚠R	5424(A,107,70)	CARBON FILM	RD1/4MUF4R7J
⚠R	5425(B,135,91)	CHIP (0.047, 0.5 W)	ACN7132
⚠R	5426(B,99,91)	CHIP (0.047, 0.5 W)	ACN7132
⚠R	5427(A,114,80)	RESISTOR (0.18, 5 W)	ACN7121
R	5429(B,114,44)		RN1/10SE3302D
R	5430(B,119,45)		RN1/16SE1001D
R	5431(B,119,43)		RN1/16SE1500D
R	5432(B,106,51)		RS1/16S151J
R	5441(B,95,63)		RS1/16S473J
R	5442(B,93,63)		RS1/16S223J
R	5443(B,97,63)		RS1/16S471J
R	5444(B,91,63)		RS1/16S471J
R	5445(B,96,54)		RS1/16S472J
R	5446(B,92,54)		RS1/16S472J
R	5447(B,88,49)		RS1/16S122J
R	5448(B,94,50)		RS1/16S154J
R	5449(B,96,50)		RS1/16S103J
R	5450(B,96,46)		RS1/16S103J
R	5501(B,283,44)		RS1/16S102J
R	5502(B,270,42)		RS1/16S221J
R	5503(B,267,41)		RS1/16S333J
R	5504(B,283,40)		RS1/16S103J
R	5505(B,260,55)		RS1/16S152J
R	5506(B,258,47)		RS1/16S821J
R	5507(B,281,48)		RS1/16S2001F
R	5508(B,270,54)		RS1/16S682J
R	5509(A,273,48)	CARBON FILM	RD1/2VM473J
R	5510(B,280,63)		RS1/16S151J
R	5511(B,277,63)		RN1/16SE1201D
R	5512(B,253,51)		RS1/16S221J
R	5513(B,257,97)	CHIP RESISTOR	RS1/16S62R0F
R	5521(B,268,94)		RS1/16S101J
R	5522(B,251,93)		RS1/16S101J
⚠R	5523(A,280,82)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠R	5524(A,250,70)	CARBON FILM RESISTOR	RD1/4MUF4R7J
⚠R	5525(B,277,91)	CHIP (0.047, 0.5 W)	ACN7132
⚠R	5526(B,241,91)	CHIP (0.047, 0.5 W)	ACN7132
⚠R	5527(A,256,80)	RESISTOR (0.18, 5 W)	ACN7121
R	5529(B,258,44)		RN1/10SE3302D
R	5530(B,263,45)		RN1/16SE1001D
R	5531(B,263,43)		RN1/16SE1500D
R	5532(B,250,51)		RS1/16S151J
R	5541(B,241,77)		RS1/16S473J
R	5542(B,235,77)		RS1/16S223J
R	5543(B,239,77)		RS1/16S471J
R	5544(B,237,77)		RS1/16S471J
R	5545(B,240,64)		RS1/16S472J
R	5546(B,238,64)		RS1/16S472J
R	5547(B,238,57)		RS1/16S122J
R	5548(B,235,68)		RS1/16S154J
R	5549(B,236,64)		RS1/16S103J
R	5550(B,242,46)		RS1/16S103J
R	5571(B,226,38)		RS1/16S472J
⚠R	5592(B,301,91)	CHIP (0.047, 0.5 W)	ACN7132
R	5622(B,311,93)		RS1/16S101J

CAPACITORS

C	5301(A,183,43)		CEAT4R7M50
C	5302(B,177,43)		CCSRCH221J50
C	5304(B,167,51)		CKSRYB102K50
C	5307(A,195,53)		CEAT101M10
C	5308(B,164,51)	CERAMIC (4P, 200 V)	ACG7057
C	5309(A,179,58)	ELECT. CAPACITOR	CEAT100M2A
C	5311(B,197,104)	CERAMIC (100P, 200 V)	ACG7056
C	5312(B,170,104)	CERAMIC (100P, 200 V)	ACG7056
C	5315(B,168,41)		CCSRCH220J50
C	5316(B,168,39)		CCSRCH220J50
C	5317(A,172,39)		CEAT331M10
C	5323(A,190,66)		CEAT100M63
C	5324(A,165,62)		CEAT100M63
C	5332(B,162,47)		CKSRYB224K16
C	5341(A,145,66)		CEANP2R2M50
C	5351(A,226,68)	ELECT. CAPACITOR	CEAT100M2A
C	5352(A,222,62)	ELECT. CAPACITOR	CEAT100M2A
C	5401(A,129,43)		CEAT4R7M50
C	5402(B,123,43)		CCSRCH221J50
C	5404(B,113,51)		CKSRYB102K50
C	5407(A,141,53)		CEAT101M10
C	5408(B,111,51)	CERAMIC (4P, 200 V)	ACG7057
C	5409(A,125,58)	ELECT. CAPACITOR	CEAT100M2A
C	5411(B,130,104)	CERAMIC (100P, 200 V)	ACG7056
C	5412(B,101,104)	CERAMIC (100P, 200 V)	ACG7056
C	5415(B,114,41)		CCSRCH220J50
C	5416(B,114,39)		CCSRCH220J50
C	5417(A,119,39)		CEAT331M10
C	5423(A,137,66)		CEAT100M63
C	5424(A,111,62)		CEAT100M63

Mark	No.	Description	Part No.
	C 5432(B,108,47)		CKSRYB224K16
	C 5441(A,88,53)		CEANP2R2M50
	C 5501(A,273,43)		CEAT4R7M50
A	C 5502(B,267,43)		CCSRCH221J50
	C 5504(B,257,51)		CKSRYB102K50
	C 5507(A,284,54)		CEAT101M10
	C 5508(B,255,51)	CERAMIC (4P, 200 V)	ACG7057
	C 5509(A,267,58)	ELECT. CAPACITOR	CEAT100M2A
	C 5511(B,271,104)	CERAMIC (100P, 200 V)	ACG7056
	C 5512(B,243,104)	CERAMIC (100P, 200 V)	ACG7056
	C 5515(B,258,41)		CCSRCH220J50
	C 5516(B,258,39)		CCSRCH220J50
	C 5517(A,263,39)		CEAT331M10
	C 5523(A,289,64)		CEAT100M63
B	C 5524(A,254,62)		CEAT100M63
	C 5532(B,252,47)		CKSRYB224K16
	C 5541(A,238,54)		CEANP2R2M50
	C 5571(A,229,35)		CEAT331M10
	C 5612(B,307,104)	CERAMIC (100P, 200 V)	ACG7056

AH POSI 1-R ASSY

MISCELLANEOUS

⚠	TH4503(A,54,235)	POSISTOR	PTFM04BH222Q2N34B0
	J 4551(A,66,232)	CONNECTOR ASSY	PG02KS-E07

C

AI POWER AMP IN ASSY

MISCELLANEOUS

Q 5601(B,58,86)	CHIP TRANSISTOR	2SD2704K
Q 5602(B,46,41)	TRANSISTOR	IMT4
Q 5603(B,42,54)	CHIP TRANSISTOR	2SA1514K
Q 5604(A,32,55)	TRANSISTOR	2SA1145
Q 5605(A,33,38)	TRANSISTOR	2SC2705
Q 5641(B,11,26)	CHIP TR	2SA1255
D 5601(B,35,57)	CHIP ZENER DIODE	UDZS3R6(B)
D 5602(B,35,53)	DIODE	1SS355
D 5603(B,26,49)	DIODE	1SS355
D 5604(B,23,44)	DIODE	1SS355
D 5605(B,23,47)	DIODE	UDZS4R7(B)
D 5606(B,21,42)	DIODE	UDZS4R7(B)
D 5641(B,18,23)	DIODE	1SS355
D 5642(B,20,23)	DIODE	1SS355
D 5643(B,13,21)	DIODE	1SS355
D 5644(B,28,23)	DIODE	1SS355
CN5601(A,71,64)	13P PLUG	XKP3066
CN5602(A,56,31)	13P PLUG	XKP3066
CN5603(A,76,131)	19P CONNECTOR	52044-1945
CN5605(A,47,65)	SOCKET 6-P	KP250NA6
CN5606(A,34,31)	SOCKET 6-P	KP250NA6
5604(A,7,50)	5P CABLE HOLDER	51048-0500

D

E

RESISTORS

R 5601(B,58,93)		RS1/16S102J
R 5602(B,54,41)		RS1/16S221J
R 5603(B,52,41)		RS1/16S333J
R 5604(B,57,82)		RS1/16S103J
R 5605(B,46,36)		RS1/16S152J

F

Mark	No.	Description	Part No.
	R 5606(B,41,38)		RS1/16S821J
	R 5607(B,42,59)		RS1/16S2001F
	R 5608(B,42,42)		RS1/16S682J
	R 5609(A,32,46)	CARBON FILM	RD1/2VM473J
	R 5610(B,30,59)		RS1/16S151J
	R 5611(B,33,59)		RN1/16SE1201D
	R 5612(B,33,34)		RS1/16S221J
⚠	R 5623(A,65,58)	CARBON FILM	RD1/4MUF4R7J
⚠	R 5624(A,65,40)	CARBON FILM	RD1/4MUF4R7J
⚠	R 5627(A,19,56)	RESISTOR (0.18, 5 W)	ACN7121
	R 5629(B,47,48)		RN1/10SE3302D
	R 5630(B,49,46)		RN1/16SE1001D
	R 5631(B,49,51)		RN1/16SE1500D
	R 5632(B,30,36)		RS1/16S151J
	R 5641(B,14,43)		RS1/16S473J
	R 5642(B,17,33)		RS1/16S223J
	R 5643(B,14,33)		RS1/16S471J
	R 5644(B,15,38)		RS1/16S471J
	R 5645(B,18,28)		RS1/16S472J
	R 5646(B,20,28)		RS1/16S472J
	R 5647(B,10,33)		RS1/16S122J
	R 5648(B,45,25)		RS1/16S154J
	R 5649(B,49,26)		RS1/16S103J
	R 5650(B,51,26)		RS1/16S103J

CAPACITORS

C 5601(A,53,45)		CEAT4R7M50
C 5602(B,50,41)		CCSRCH221J50
C 5604(B,44,36)		CKSRYB102K50
C 5607(A,38,57)		CEAT101M10
C 5608(B,36,42)	CERAMIC (4P, 200 V)	ACG7057
C 5609(A,27,51)	ELECT. CAPACITOR	CEAT100M2A
C 5615(B,45,47)		CCSRCH220J50
C 5616(B,42,49)		CCSRCH220J50
C 5617(A,47,52)		CEAT331M10
C 5623(A,69,58)		CEAT100M63
C 5624(A,69,42)		CEAT100M63
C 5632(B,28,39)		CKSRYB224K16
C 5641(A,12,35)		CEANP2R2M50

AJ POWER PROTECT ASSY

MISCELLANEOUS

IC 5701(B,19,110)	OP-AMP IC	BA4560RF
Q 5701(B,26,161)	TRANSISTOR	RT1N241M
Q 5702(B,16,161)	DIGITAL TR (SC-70)	RT1P241M
Q 5703(B,16,151)	TRANSISTOR	RT1N241M
Q 5704(B,33,100)	TRANSISTOR	2SC4081
Q 5705(B,23,161)	TRANSISTOR	RT1N241M
Q 5706(B,12,161)	DIGITAL TR (SC-70)	RT1P241M
D 5701(B,23,94)	DIODE	1SS355
D 5702(B,30,205)	DIODE	1SS355
CN5701(A,28,171)	11P PLUG	XKP3065
CN5702(A,15,138)	11P PLUG	XKP3065
CN5703(A,8,85)	19P CONNECTOR	52044-1945
CN5704(A,37,83)	CONNECTOR	S5B-PH
CN5705(A,30,223)	17P CONNECTOR	52044-1745
CN5706(A,38,222)	3PIN CONNECTOR	S3B-EH

Mark	No.	Description	Part No.
RESISTORS			
	R 5701	(B,23,151)	RS1/16S562J
	R 5702	(B,21,151)	RS1/16S562J
	R 5703	(B,10,181)	RS1/16S473J
	R 5705	(B,18,187)	RS1/16S0R0J
	R 5706	(B,19,151)	RS1/16S822J
	R 5707	(B,18,181)	RS1/16S473J
	R 5708	(B,13,187)	RS1/16S0R0J
	R 5710	(B,17,118)	RS1/16S223J
	R 5711	(B,13,112)	RS1/16S103J
	R 5712	(B,13,108)	RS1/16S472J
	R 5713	(B,23,106)	RS1/16S103J
	R 5714	(B,24,131)	RS1/16S102J
	R 5715	(B,27,101)	RS1/16S473J
	R 5716	(B,29,101)	RS1/16S472J
	R 5717	(B,33,95)	RS1/16S103J
	R 5718	(B,30,210)	RS1/16S104J
	R 5720	(B,31,95)	RS1/16S103J
	R 5721	(B,29,95)	RS1/16S683J
	R 5746	(B,20,181)	RS1/16S0R0J
	R 5747	(B,18,161)	RS1/16S0R0J
	R 5750	(B,35,95)	RS1/16S0R0J
	R 5751	(B,26,131)	RS1/16S0R0J
	R 5752	(B,25,101)	RS1/16S0R0J
CAPACITORS			
	C 5701	(B,13,181)	CKSRYB104K50
	C 5702	(B,15,181)	CKSRYB104K50
	C 5703	(B,23,110)	CKSRYB103K50
	C 5704	(B,23,114)	CKSRYB103K50
	C 5705	(B,31,101)	CKSRYB223K50
	C 5706	(B,37,217)	CKSRYB103K50

AK HDMI & DVC ASSY

MISCELLANEOUS

	IC 101	(A,56,65) HDMI RECEIVER	SII9033CTU
	IC 151	(A,25,86) EEPROM	BR24L02FV-W
	IC 152	(A,30,86) LOGIC IC	SN74CBT3257CPW
	IC 171	(A,25,66) EEPROM	BR24L02FV-W
	IC 172	(A,30,66) LOGIC IC	SN74CBT3257CPW
	IC 202	(A,77,22) IC	TC74LCX541FTS1
	IC 203	(A,77,12) IC	TC74LCX541FTS1
	IC 301	(A,52,33) HDMI TRANSMITTER	SII9030CTU-7
	IC 401	(A,135,64) VIDEO DECODER	ADV7401BSTZ-80
	IC 402	(A,150,65) IC	TC7WU04FU
	IC 452	(A,90,70) IC	TC7SZ125FU
	IC 453	(A,87,63) IC	TC74LCX541FTS1
	IC 454	(A,87,54) IC	TC74LCX541FTS1
	IC 501	(B,107,36) CPU	PEG118A
	IC 502	(A,107,38) FLASH ROM	AYW7123
	IC 504	(A,97,25) IC	TC74VHC125FTS1
	IC 701	(A,108,59) VIDEO ENCODER IC	ADV7172KSTZ
⚠	IC 901	(B,144,27) REGULATOR IC	BD7802FP
⚠	IC 902	(B,140,41) IC	NJM2885DL1-18
⚠	IC 903	(B,156,40) REGULATOR IC	BD7802FP
⚠	IC 904	(B,158,57) REGULATOR IC	MM1561JF
⚠	IC 911	(B,104,11) REGULATOR IC	NJM2872BF05
	Q 101	(A,42,91) DUAL MOS FET	HN1K02FU
	Q 151	(A,18,91) CHIP TRANSISTOR	DTC114YUA
	Q 152	(B,24,83) CHIP TRANSISTOR	DTC114YUA
	Q 153	(A,39,84) DUAL MOS FET	HN1K02FU
	Q 161	(A,35,45) DUAL MOS FET	HN1K02FU
	Q 171	(A,18,68) CHIP TRANSISTOR	DTC114YUA
	Q 172	(B,24,63) CHIP TRANSISTOR	DTC114YUA
	Q 173	(A,37,65) DUAL MOS FET	HN1K02FU
	Q 301	(B,42,31) DIGITAL TR (SC-70)	RT1P241M
	Q 351	(B,28,32) CHIP TR (PNP X 2)	UMB1N
	Q 352	(B,31,37) CHIP TRANSISTOR	DTC114YUA
	Q 353	(A,41,42) DUAL MOS FET	HN1K02FU
	Q 731	(A,95,70) TRANSISTOR	2SA1576A
	Q 741	(A,100,70) TRANSISTOR	2SA1576A
	Q 751	(A,104,70) TRANSISTOR	2SA1576A
	Q 761	(A,109,70) TRANSISTOR	2SA1576A
	Q 771	(A,113,70) TRANSISTOR	2SA1576A
	Q 781	(A,118,70) TRANSISTOR	2SA1576A
	D 151	(B,20,79) DIODE	DAN202U
	D 171	(B,20,55) DIODE	DAN202U
	D 381	(B,28,49) DIODE	UDZS5R1(B)
	D 551	(A,89,38) CHIP DIODE	RB501V-40
	D 903	(B,148,50) DIODE	1SR154-400
	L 101	(A,72,46) CHIP BEADS	ATL7010
	L 103	(A,80,84) CHIP BEADS	ATL7010
	L 104	(A,36,48) CHIP BEADS	ATL7010
	L 302	(B,53,30) CHIP BEADS	ATL7010
	L 304	(A,74,31) CHIP BEADS	ATL7010
	L 305	(A,69,46) CHIP BEADS	ATL7010
⚠	L 351	(A,29,26) COIL	ATH7022
⚠	L 352	(A,29,29) COIL	ATH7022
⚠	L 353	(A,29,32) COIL	ATH7022
⚠	L 354	(A,29,35) COIL	ATH7022
	L 401	(A,149,53) CHIP BEADS	ATL7010
	L 402	(B,146,73) CHIP BEADS	ATL7010
	L 403	(A,158,61) CHIP BEADS	ATL7010
	L 404	(A,148,88) CHIP BEADS	ATL7010
	L 501	(A,82,38) CHIP BEADS	ATL7010
	L 701	(A,100,51) CHIP BEADS	ATL7010
	L 702	(B,125,84) CHIP BEADS	ATL7010
	JA 101	(A,16,79) HDMI CONNECTOR	AKP7210
	JA 102	(A,16,57) HDMI CONNECTOR	AKP7210
	JA 301	(A,16,35) HDMI CONNECTOR	AKP7210
	X 101	(A,60,48) CRYSTAL (27M)	ASS7066
	X 401	(A,152,72) CRYSTAL (28.63636M)	ASS7067
	X 501	(A,112,29) CERAMIC (15.7M)	XSS3004
	CN501	(A,18,19) 07P CONNECTOR	RKN1048
	CN1001	(A,137,13) 26P SOCKET	AKP7209
	CN1002	(A,86,81) 23P SOCKET	XKP3082
RESISTORS			
	R 101	(A,52,83) RESISTOR ARRAY	RAB4CQ100J
	R 102	(A,66,79) RESISTOR ARRAY	RAB4CQ470J
	R 103	(A,50,79)	RS1/16S100J
	R 104	(B,52,77)	RS1/16S100J
	R 105	(A,47,79)	RS1/16S103J

Mark	No.		Description	Part No.	Mark	No.		Description	Part No.
	R	106	(A,49,79)	RS1/16S103J		R	303	(B,57,39)	RS1/16S100J
	R	107	(A,57,83) RESISTOR ARRAY	RAB4CQ470J		R	306	(B,50,42)	RS1/16S101J
	R	108	(A,60,83) RESISTOR ARRAY	RAB4CQ470J		R	312	(B,51,34) CHIP RESISTOR	RS1/16S4750F
A	R	109	(B,60,71)	RS1/16S470J		R	313	(A,44,39)	RS1/16S472J
	R	111	(B,50,48)	RS1/16S101J		R	314	(B,49,26)	RS1/16S100J
	R	112	(B,49,53)	RS1/16S470J		R	315	(B,45,27)	RS1/16S100J
	R	113	(B,52,61)	RS1/16S680J		R	316	(A,45,24)	RS1/16S471J
	R	114	(B,64,53)	RS1/16S472J		R	318	(B,55,26)	RS1/16S472J
	R	115	(A,71,49)	RS1/16S472J		R	319	(B,49,35)	RS1/16S3901F
	R	118	(A,61,51)	RS1/16S105J		R	325	(B,59,30)	RS1/16S150J
	R	119	(A,67,49)	RS1/16S471J		R	326	(A,48,43)	RS1/16S100J
	R	120	(B,63,60)	RS1/16S221J		R	327	(A,46,43)	RS1/16S100J
	R	121	(A,67,50)	RS1/16S221J		R	331	(A,60,43) RESISTOR ARRAY	RAB4CQ473J
	R	122	(B,54,61)	RS1/16S470J		R	332	(A,75,61)	RS1/16S473J
B	R	123	(B,55,53)	RS1/16S100J		R	333	(A,75,72) RESISTOR ARRAY	RAB4CQ473J
	R	124	(A,58,51)	RS1/16S152J		R	334	(A,75,70) RESISTOR ARRAY	RAB4CQ473J
	R	125	(A,52,47) RESISTOR ARRAY	RAB4CQ680J		R	335	(A,75,67) RESISTOR ARRAY	RAB4CQ473J
	R	126	(A,71,72) RESISTOR ARRAY	RAB4CQ470J		R	336	(A,75,64) RESISTOR ARRAY	RAB4CQ473J
	R	127	(A,71,70) RESISTOR ARRAY	RAB4CQ470J		R	337	(A,75,58) RESISTOR ARRAY	RAB4CQ473J
	R	128	(A,71,67) RESISTOR ARRAY	RAB4CQ220J		R	338	(A,75,55) RESISTOR ARRAY	RAB4CQ473J
	R	129	(A,71,64) RESISTOR ARRAY	RAB4CQ220J		R	351	(B,27,37)	RS1/16S472J
	R	130	(A,71,58) RESISTOR ARRAY	RAB4CQ220J		R	352	(B,24,37)	RS1/16S472J
	R	131	(A,71,55) RESISTOR ARRAY	RAB4CQ220J		R	353	(B,29,37)	RS1/16S272J
	R	132	(A,71,61)	RS1/16S150J		R	354	(B,24,31)	RS1/16S272J
	R	133	(B,44,89)	RS1/16S103J		R	355	(A,44,43)	RS1/16S472J
C	R	134	(A,40,90)	RS1/16S103J		R	356	(A,38,43)	RS1/16S472J
	R	135	(A,46,89)	RS1/16S103J		R	386	(B,26,44)	RS1/16S473J
	R	136	(B,40,88)	RS1/16S103J		R	389	(B,28,44)	RS1/16S102J
	R	137	(B,46,89)	RS1/16S104J		R	403	(A,132,54) RESISTOR ARRAY	RAB4CQ470J
	R	138	(A,38,90)	RS1/16S104J		R	404	(B,134,56)	RS1/16S330J
	R	151	(B,31,83)	RS1/16S100J		R	405	(B,131,61)	RS1/16S330J
	R	152	(B,29,83)	RS1/16S100J		R	406	(A,139,52)	RS1/16S330J
	R	153	(B,26,83)	RS1/16S101J		R	407	(A,142,54) RESISTOR ARRAY	RAB4CQ560J
	R	154	(B,31,79)	RS1/16S103J		R	408	(B,144,56)	RS1/16S560J
	R	155	(B,29,79)	RS1/16S103J		R	409	(B,142,57)	RS1/16S560J
D	R	156	(B,26,79)	RS1/16S103J		R	410	(B,144,61)	RS1/16S103J
	R	157	(B,18,91)	RS1/16S473J		R	411	(B,135,64)	RS1/16S100J
	R	158	(A,39,87)	RS1/16S472J		R	412	(B,140,57)	RS1/16S560J
	R	159	(A,39,81)	RS1/16S472J		R	413	(B,138,61)	RS1/16S560J
	R	161	(B,21,83)	RS1/16S102J		R	414	(A,150,69)	RS1/16S105J
	R	171	(B,31,63)	RS1/16S100J		R	415	(A,153,69)	RS1/16S101J
	R	172	(B,29,63)	RS1/16S100J		R	416	(A,146,64)	RS1/16S101J
	R	173	(B,26,63)	RS1/16S101J		R	417	(A,154,65)	RS1/16S0R0J
	R	174	(B,31,59)	RS1/16S103J		R	418	(B,142,73)	RS1/16S132J
	R	175	(B,29,59)	RS1/16S103J		R	419	(B,142,69)	RS1/16S391J
E	R	176	(B,26,59)	RS1/16S103J		R	421	(A,148,80)	RS1/10S0R0J
	R	177	(B,24,49)	RS1/16S473J		R	422	(A,148,82)	RS1/10S0R0J
	R	178	(A,35,68)	RS1/16S472J		R	423	(A,145,73)	RS1/16S103J
	R	179	(A,37,63)	RS1/16S472J		R	424	(B,133,71)	RS1/16S272J
	R	181	(B,20,61)	RS1/16S102J		R	425	(B,135,71)	RS1/16S272J
	R	201	(A,83,27)	RS1/16S470J		R	431	(A,123,69)	RS1/16S471J
	R	202	(A,84,25)	RS1/16S470J		R	432	(B,126,65)	RS1/16S103J
	R	203	(A,84,24)	RS1/16S470J		R	434	(B,122,62)	RS1/16S330J
	R	204	(A,83,22) RESISTOR ARRAY	RAB4CQ470J		R	435	(B,124,62)	RS1/16S330J
	R	205	(A,83,19)	RS1/16S470J		R	436	(A,124,60) RESISTOR ARRAY	RAB4CQ470J
	R	206	(A,83,17) RESISTOR ARRAY	RAB4CQ470J		R	452	(A,89,73)	RS1/16S330J
F	R	207	(A,84,15)	RS1/16S470J		R	453	(A,80,62) RESISTOR ARRAY	RAB4CQ680J
	R	208	(A,84,14)	RS1/16S470J		R	454	(A,80,65) RESISTOR ARRAY	RAB4CQ680J
	R	209	(A,84,12)	RS1/16S470J		R	455	(A,80,55) RESISTOR ARRAY	RAB4CQ680J
	R	210	(B,80,11)	RS1/16S470J		R	456	(A,80,58) RESISTOR ARRAY	RAB4CQ680J

Mark	No.		Description	Part No.
R	461	(A,137,48)	RESISTOR ARRAY	RAB4CQ473J
R	462	(A,142,50)	RESISTOR ARRAY	RAB4CQ473J
R	463	(A,105,51)	RESISTOR ARRAY	RAB4CQ473J
R	464	(A,109,51)	RESISTOR ARRAY	RAB4CQ473J
R	465	(B,133,64)		RS1/16S473J
R	506	(B,125,32)		RS1/16S221J
R	508	(B,119,27)		RS1/16S472J
R	511	(B,129,23)		RS1/16S101J
R	517	(B,112,22)		RS1/16S101J
R	520	(B,127,32)		RS1/16S103J
R	524	(B,107,19)		RS1/16S100J
R	525	(B,105,19)		RS1/16S100J
R	526	(B,99,17)		RS1/16S100J
R	527	(B,95,17)		RS1/16S100J
R	528	(B,93,22)		RS1/16S470J
R	529	(B,90,26)		RS1/16S473J
R	530	(B,109,19)		RS1/16S222J
R	531	(B,103,19)		RS1/16S222J
R	533	(B,97,17)		RS1/16S222J
R	534	(B,92,17)		RS1/16S222J
R	537	(B,129,40)		RS1/16S101J
R	538	(B,127,40)		RS1/16S101J
R	539	(B,125,40)		RS1/16S101J
R	540	(A,102,23)		RS1/16S470J
R	541	(A,91,25)		RS1/16S103J
R	542	(A,91,23)		RS1/16S470J
R	543	(A,91,26)		RS1/16S472J
R	544	(A,91,28)		RS1/16S470J
R	546	(B,95,22)		RS1/16S101J
R	548	(A,89,31)		RS1/16S473J
R	549	(B,93,26)		RS1/16S473J
R	551	(A,119,42)		RS1/16S473J
R	561	(B,121,27)		RS1/16S103J
R	562	(B,127,27)		RS1/16S103J
R	564	(B,123,23)		RS1/16S103J
R	565	(B,116,22)		RS1/16S103J
R	566	(A,105,23)		RS1/16S103J
R	567	(A,115,25)		RS1/16S103J
R	568	(B,123,48)		RS1/16S103J
R	569	(A,89,32)		RS1/16S103J
R	571	(B,19,22)		RS1/16S103J
R	580	(B,83,33)		RS1/16S101J
R	581	(A,96,30)		RS1/16S101J
R	582	(A,103,30)		RS1/16S101J
R	583	(A,99,30)		RS1/16S101J
R	586	(B,131,44)		RS1/16S103J
R	588	(A,107,22)		RS1/16S103J
R	594	(A,123,23)		RS1/16S0R0J
R	702	(A,116,54)		RS1/16S103J
R	704	(A,116,55)		RS1/16S103J
R	705	(A,119,57)		RS1/16S103J
R	706	(A,116,58)		RS1/16S103J
R	707	(A,119,59)		RS1/16S470J
R	708	(A,119,60)		RS1/16S470J
R	709	(A,119,62)		RS1/16S1201F
R	710	(A,119,63)		RS1/16S1201F
R	711	(A,100,62)		RS1/16S1201F
R	712	(A,100,64)		RS1/16S1201F
R	713	(B,97,59)		RS1/16S470J
R	714	(B,100,59)		RS1/16S103J

Mark	No.		Description	Part No.
R	716	(A,100,60)		RS1/16S103J
R	718	(A,99,58)		RS1/16S103J
R	719	(A,94,59)		RS1/16S471J
R	721	(A,99,54)		RS1/16S470J
R	731	(B,96,66)		RS1/16S1500F
R	732	(B,94,66)		RS1/16S0R0J
R	733	(A,94,74)		RS1/16S102J
R	741	(B,101,66)		RS1/16S1500F
R	742	(B,99,66)		RS1/16S0R0J
R	743	(A,99,74)		RS1/16S102J
R	751	(B,105,66)		RS1/16S1500F
R	752	(B,104,66)		RS1/16S0R0J
R	753	(A,103,74)		RS1/16S102J
R	761	(B,110,66)		RS1/16S1500F
R	762	(B,108,66)		RS1/16S3R3J
R	763	(A,108,74)		RS1/16S102J
R	771	(B,114,66)		RS1/16S1500F
R	772	(B,112,66)		RS1/16S3R3J
R	773	(A,112,74)		RS1/16S102J
R	781	(B,119,66)		RS1/16S1500F
R	782	(B,117,66)		RS1/16S3R3J
R	783	(A,117,74)		RS1/16S102J
R	902	(A,147,40)		RS1/10S0R0J
R	1001	(A,108,17)		RS1/10S0R0J
R	1002	(A,93,18)		RS1/10S100J
R	1101	(B,91,73)		RS1/10S0R0J
R	1102	(B,89,73)		RS1/10S0R0J
R	1105	(A,43,79)		RS1/10S0R0J
R	1107	(B,63,53)		RS1/16S0R0J
R	1108	(B,61,60)		RS1/16S0R0J
R	1301	(B,43,36)		RS1/10S0R0J

CAPACITORS

C	101	(A,46,79)	CKSRYB105K10
C	102	(A,52,79)	CKSRYB104K16
C	103	(A,54,79)	CKSRYB104K16
C	104	(A,55,79)	CKSRYB104K16
C	106	(A,59,79)	CKSRYB104K16
C	110	(A,64,79)	CKSRYB104K16
C	112	(A,77,48)	CEVW101M16
C	115	(A,74,77)	CEVW101M16
C	116	(B,46,74)	CKSRYB105K10
C	117	(A,43,77)	CKSRYB105K10
C	118	(B,49,70)	CKSRYB104K16
C	119	(B,46,70)	CKSRYB104K16
C	120	(B,49,66)	CKSRYB104K16
C	121	(B,46,66)	CKSRYB105K10
C	122	(B,49,60)	CKSRYB104K16
C	123	(B,45,60)	CKSRYB104K16
C	124	(B,45,56)	CKSRYB104K16
C	125	(A,41,49)	CEVW101M16
C	126	(A,46,51)	CKSRYB104K16
C	127	(A,47,51)	CKSRYB104K16
C	128	(A,49,51)	CKSRYB104K16
C	129	(A,68,53)	CKSRYB104K16
C	130	(A,52,51)	CKSRYB104K16
C	131	(A,54,51)	CKSRYB104K16
C	132	(A,56,50)	CKSRYB104K16

Mark	No.		Description	Part No.	Mark	No.		Description	Part No.
	C	133	(B,61,53)	CKSRYB104K16		C	430	(A,132,75)	CKSRYB104K16
	C	134	(B,59,60)	CKSRYB104K16		C	431	(A,127,82)	CEVW100M16
	C	135	(A,67,47)	CKSRYB103K50		C	432	(A,132,77)	CKSRYB104K16
A	C	136	(A,65,51)	CKSRYB103K50		C	433	(A,132,82)	CEVW100M16
	C	137	(A,58,45)	CCSRCH120J50		C	434	(B,131,76)	CKSRYB103K50
	C	138	(A,62,45)	CCSRCH120J50		C	435	(B,129,76)	CKSRYB104K16
	C	139	(B,67,72)	CKSRYB104K16		C	436	(B,127,76)	DCH1201
	C	140	(B,67,68)	CKSRYB104K16		C	437	(B,137,76)	CKSRYB104K16
	C	141	(B,70,66)	CKSRYB104K16		C	438	(A,126,76)	CKSRYB104K16
	C	142	(B,67,64)	CKSRYB104K16		C	439	(A,126,74)	CKSRYB104K16
	C	143	(B,66,60)	CKSRYB104K16		C	440	(A,123,72)	CKSRYB104K16
	C	144	(A,44,89)	CKSRYB103K50		C	441	(A,123,71)	CKSRYB102K50
	C	145	(B,38,88)	CKSRYB103K50		C	443	(A,124,68)	CKSRYB103K50
	C	151	(A,22,87)	CKSRYB104K16		C	444	(A,156,51)	CEVW101M16
B	C	153	(A,34,83)	CKSRYB104K16		C	445	(A,124,63)	CKSRYB104K16
	C	171	(A,21,68)	CKSRYB104K16		C	452	(A,87,69)	CKSRYB104K16
	C	173	(A,34,64)	CKSRYB104K16		C	453	(A,86,58)	CKSRYB104K16
	C	191	(B,26,73)	CKSRYB104K16		C	454	(A,86,49)	CKSRYB104K16
	C	192	(B,29,73)	CKSRYB102K50		C	501	(B,123,32)	CKSRYB103K50
	C	202	(A,77,27)	CKSRYB104K16		C	502	(B,116,27)	CKSRYB104K16
	C	203	(A,77,17)	CKSRYB104K16		C	503	(A,85,44)	CEVW101M16
	C	301	(A,56,44)	CKSRYB104K16		C	505	(B,123,43)	CKSRYB104K16
	C	302	(A,51,43)	CKSRYB104K16		C	506	(B,97,45)	CKSRYB104K16
	C	303	(A,49,43)	CKSRYB104K16		C	507	(A,97,21)	CKSRYB104K16
	C	304	(B,49,30)	CKSRYB104K16		C	551	(A,119,39)	CKSRYB104K16
C	C	305	(B,53,34)	CKSRYB105K10		C	552	(A,94,40)	CKSRYB104K16
	C	308	(B,45,31)	CKSRYB104K16		C	571	(B,21,18)	CKSRYB104K16
	C	311	(B,45,36)	CKSRYB104K16		C	701	(A,95,52)	CEVW101M16
	C	312	(A,58,24)	CKSRYB105K10		C	702	(A,113,51)	CKSRYB104K16
	C	313	(B,51,26)	CKSRYB104K16		C	703	(A,102,51)	CKSRYB104K16
	C	314	(A,50,24)	CKSRYB104K16		C	704	(A,116,60)	CKSRYB104K16
	C	315	(A,44,22)	CKSRYB103K50		C	705	(A,119,65)	CKSRYB104K16
	C	316	(A,68,30)	CEVW101M16		C	706	(B,109,59)	CKSRYB104K16
	C	317	(A,68,40)	CEVW101M16		C	707	(B,107,59)	CKSRYB104K16
	C	318	(B,56,34)	CKSRYB105K10		C	708	(B,105,59)	CKSRYB104K16
D	C	319	(B,59,35)	CKSRYB104K16		C	709	(B,102,60)	CKSRYB104K16
	C	351	(B,21,39)	CKSRYB104K16		C	710	(B,111,59)	CKSRYB105K10
	C	391	(B,26,53)	CKSRYB104K16		C	711	(A,121,81)	CEVW101M16
	C	392	(B,29,53)	CKSRYB102K50		C	712	(A,100,65)	CKSRYB104K16
	C	401	(A,148,47)	CEVW101M16		C	713	(A,96,58)	CKSRYB103K50
	C	402	(A,130,53)	CKSRYB104K16		C	714	(A,98,57)	CKSRYB104K16
	C	403	(A,135,53)	CKSRYB105K10		C	731	(A,94,72)	CKSRYB104K16
	C	404	(A,138,53)	CKSRYB104K16		C	741	(A,99,72)	CKSRYB104K16
	C	405	(A,144,66)	CKSRYB104K16		C	751	(A,103,72)	CKSRYB104K16
	C	406	(A,150,75)	CCSRCH7R0D50		C	761	(A,108,72)	CKSRYB104K16
	C	407	(A,154,75)	CCSRCH7R0D50		C	771	(A,112,72)	CKSRYB104K16
E	C	408	(A,153,65)	CKSRYB104K16		C	781	(A,117,72)	CKSRYB104K16
	C	409	(B,144,73)	CHIP CAPACITOR CKSRYB823K25		C	901	(B,149,23)	CKSRYB105K10
	C	410	(B,144,69)	CKSRYB103K50		C	902	(B,142,18)	CKSQYB225K10
	C	411	(A,144,69)	CKSRYB471K50		C	904	(B,145,38)	CKSRYB105K10
	C	412	(A,146,70)	CKSQYB225K10		C	905	(B,138,33)	CHIP CERAMIC C. DCG1028
	C	421	(A,143,77)	CKSRYB104K16		C	907	(B,151,42)	CKSRYB105K10
	C	422	(A,141,77)	CKSRYB104K16		C	908	(B,158,49)	CKSQYB225K10
	C	423	(A,140,77)	CKSRYB104K16		C	910	(B,153,54)	CKSRYB105K10
	C	424	(A,136,75)	CKSRYB103K50		C	911	(B,160,63)	CKSRYB471K50
	C	425	(A,136,77)	CKSRYB104K16		C	912	(B,153,59)	CKSQYB225K10
F	C	426	(A,137,78)	DCH1201		C	915	(B,109,11)	CKSRYB104K16
	C	427	(B,135,76)	CKSRYB104K16		C	916	(B,107,11)	CKSRYB103K50
	C	428	(A,137,81)	CKSRYB104K16		C	917	(B,99,11)	CKSQYB225K10
	C	429	(A,142,85)	CEVW101M16		C	1001	(A,111,18)	CKSRYB104K16

Mark	No.		Description	Part No.
	C	1002(A,100,17)		CEVW101M16

AL USB ASSY

MISCELLANEOUS

	IC	701 (A,37,40)	USB MEDIA CONTROL IC	TCC760HC01-AG
⚠	IC	702 (A,63,35)	REGULATOR IC	MM1561JF
⚠	IC	703 (A,87,25)	REGULATOR IC	BD7802FP
	IC	761 (A,63,46)	SD-RAM(64M)	HY57V641620ETP-6
	IC	762 (A,87,46)	FLASH ROM	AYW7088
	IC	9762	FLASH MEMORY IC	S29AL016D70TFI010
	IC	771 (A,58,59)	LOAD SWITCHING	AAT4618IGV-0.5-1
	IC	781 (A,37,16)	AUDIO DAC	AK4387ET
	IC	951 (A,67,28)	IC	TC74VHCT08AFTS1
	IC	953 (A,52,25)	IC	TC74VHC08FTS1
	Q	782 (B,94,44)	CHIP TRANSISTOR	DTC114YUA
	Q	783 (B,92,38)	TRANSISTOR	2SA1576A
	Q	784 (B,87,32)	TRANSISTOR	IMX9
	L	701 (B,27,42)	INDUCTOR	LCTC100K1608
	L	702 (B,34,33)	CHIP SOLID INDUCTOR	QTL1013
	L	703 (A,24,30)	CHIP SOLID INDUCTOR	QTL1013
	L	704 (B,53,56)	CHIP SOLID INDUCTOR	QTL1013
	L	705 (B,28,38)	CHIP FERRITE BEADS	VTL1169
	L	731 (A,28,60)	CHIP FERRITE BEADS	VTL1169
	L	733 (A,36,56)	COIL	VTH1043
	L	761 (B,78,47)	CHIP SOLID INDUCTOR	QTL1013
	L	762 (B,85,44)	CHIP SOLID INDUCTOR	QTL1013
	L	781 (B,46,19)	CHIP SOLID INDUCTOR	QTL1013
	L	951 (A,59,30)	CHIP SOLID INDUCTOR	QTL1013
	L	953 (A,72,37)	CHIP SOLID INDUCTOR	QTL1013
	X	701 (A,23,42)	CRYSTAL OSCILLATOR	CSS1614
	CN701	(A,33,60)	CONNECTOR	B4B-PH-K-S
	CN702	(A,87,16)	15P SOCKET	XKP3078

RESISTORS

R	702	(A,43,55)	RS1/16S473J
R	703	(A,38,53)	RS1/16S0R0J
R	704	(A,35,53)	RS1/16S0R0J
R	705	(A,30,54)	RS1/16S470J
R	706	(A,30,52)	RS1/16S470J
R	707	(B,32,48)	RS1/16S470J
R	708	(B,22,51)	RS1/16S470J
R	709	(B,23,41)	RS1/16S0R0J
R	710	(B,35,42)	RS1/16S0R0J
R	711	(B,37,42)	RS1/16S472J
R	712	(A,27,43)	RS1/16S475J
R	717	(A,31,29)	RS1/16S473J
R	718	(A,36,25)	RS1/16S101J
R	719	(A,35,25)	RS1/16S101J
R	720	(A,35,21)	RS1/16S101J
R	724	(A,39,21)	RS1/16S472J
R	725	(A,44,25)	RS1/16S472J
R	726	(A,42,21)	RS1/16S472J
R	727	(A,33,21)	RS1/16S101J
R	729	(B,30,38)	RS1/16S103J
R	730	(B,39,33)	RS1/16S102J
R	734	(A,43,58)	RS1/16S0R0J
R	735	(A,32,55)	RS1/16S153J
R	736	(A,40,55)	RS1/16S153J
R	737	(A,34,55)	RS1/16S100J
R	738	(A,39,55)	RS1/16S100J
R	741	(B,79,23)	RS1/16S101J
R	744	(A,77,20)	RS1/16S101J
R	745	(A,76,21)	RS1/16S101J
R	746	(A,74,20)	RS1/16S101J
R	747	(A,72,20)	RS1/16S101J
R	748	(A,71,20)	RS1/16S101J
R	755	(A,26,45)	RS1/16S0R0J
R	756	(A,26,41)	RS1/16S472J
R	757	(A,43,60)	RS1/16S0R0J
R	771	(A,61,56)	RS1/16S221J
R	772	(A,58,56)	RS1/16S104J
R	773	(A,71,59)	RS1/16S0R0J
R	784	(A,30,21)	RS1/16S470J
R	786	(A,41,21)	RS1/16S470J
R	788	(A,44,21)	RS1/16S4R7J
R	789	(A,74,25)	RS1/16S471J
R	790	(A,79,23)	RS1/16S471J
R	791	(B,83,34)	RS1/16S104J
R	792	(B,90,30)	RS1/16S104J
R	793	(B,83,30)	RS1/16S101J
R	794	(B,90,34)	RS1/16S101J
R	795	(A,87,33)	RS1/16S222J
R	796	(A,87,30)	RS1/16S222J
R	797	(B,92,44)	RS1/16S102J
R	798	(B,95,38)	RS1/16S102J
R	799	(B,90,38)	RS1/16S103J
R	951	(B,43,26)	RS1/16S472J
R	952	(A,62,31)	RS1/16S472J
R	966	(A,72,32)	RS1/16S101J
R	972	(A,62,28)	RS1/16S101J
R	973	(A,73,29)	RS1/16S101J
R	977	(A,47,25)	RS1/16S101J
R	978	(A,47,28)	RS1/16S101J
R	979	(B,58,27)	RS1/16S101J
R	980	(B,60,27)	RS1/16S101J

CAPACITORS

C	701	(A,49,36)	CKSRYB104K16
C	702	(A,47,36)	CCSRCH471J50
C	703	(A,49,40)	CKSRYB104K16
C	704	(A,47,40)	CCSRCH471J50
C	705	(A,49,44)	CKSRYB104K16
C	706	(A,47,44)	CCSRCH471J50
C	707	(A,45,51)	CKSRYB104K16
C	708	(A,45,50)	CCSRCH471J50
C	709	(A,30,51)	CKSRYB104K16
C	710	(A,30,50)	CCSRCH471J50
C	711	(B,30,45)	CKSRYB104K16
C	712	(B,27,45)	CCSRCH471J50
C	713	(A,26,46)	CCSRCH120J50
C	714	(A,26,39)	CCSRCH120J50
C	715	(B,26,38)	CKSRYB331K50
C	716	(B,32,33)	CKSRYB104K16
C	717	(B,30,33)	CCSRCH471J50
C	719	(A,25,36)	CCSRCH471J50
C	720	(B,23,30)	CKSRYB104K16
C	721	(A,24,24)	CEJQ101M6R3

Mark	No.	Description	Part No.
C	723	(A,37,27)	CCSRCH471J50
C	724	(A,37,29)	CKSRYB104K16
C	726	(A,34,27)	CKSRYB104K16
C	727	(A,34,29)	CCSRCH471J50
C	728	(A,41,28)	CKSRYB104K16
C	729	(A,41,29)	CCSRCH471J50
C	730	(B,60,34)	CCSRCH471J50
C	731	(A,25,55)	CEJQ101M16
C	732	(B,29,55)	CKSRYB104K16
C	733	(B,29,60)	CKSRYB104K16
C	734	(B,41,32)	CKSRYB103K50
C	735	(B,37,33)	CKSRYB103K50
C	741	(A,92,19)	CEJQ101M16
C	742	(B,96,20)	CKSRYB104K16
C	743	(A,96,32)	CKSRYB105K6R3
C	745	(B,64,35)	CKSRYB105K6R3
C	746	(A,53,32)	CKSQYB225K10
C	761	(B,71,46)	CKSRYB104K16
C	762	(B,73,46)	CCSRCH471J50
C	763	(B,67,46)	CCSRCH471J50
C	764	(B,65,46)	CCSRCH471J50
C	766	(B,52,50)	CCSRCH471J50
C	767	(B,80,44)	CKSRYB104K16
C	768	(B,82,44)	CCSRCH471J50
C	771	(A,62,60)	CKSQYB105K16
C	773	(A,55,60)	CKSRYB104K16
C	781	(A,44,17)	CCSRCH471J50
C	782	(A,45,19)	CKSRYB104K16
C	783	(A,49,19)	CEJQ470M16
C	784	(A,45,16)	CKSRYB104K16
C	786	(A,55,16)	CEJQ100M16
C	788	(A,42,18)	CKSRYB104K16
C	789	(A,77,26)	CKSRYB102K50
C	790	(A,79,25)	CKSRYB102K50
C	791	(A,75,31)	CEJQ100M16
C	792	(A,81,31)	CEJQ100M16
C	951	(A,58,27)	CCSRCH471J50
C	952	(A,59,27)	CKSRYB105K10
C	956	(A,70,34)	CKSQYB105K10
C	957	(A,70,33)	CCSRCH471J50

6. ADJUSTMENT

• There is no information to be shown in this chapter.

7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 TEST MODE

■ Version indication

[Purpose]

The versions for various microcomputers and DSP firmware are displayed.

[How to enter/exit]

During Standby mode, simultaneously press and hold the STANDBY/ON and MULTI CH IN keys for 5 seconds to enter this mode. This mode is automatically exited when the indications of all versions have finished.

[Basic operations]

FL Display	Description of Version Indications	Duration (sec.)	Devices that can be considered generally normal, with the corresponding indications
POWER OFF ↓			
M1.000 F1.000	Mx.xxx : Main microcomputer Fx.xxx : Display microcomputer	5	Main microcomputer and display microcomputer
↓ D1.000 H1.000	Dx.xxx : DSP microcomputer Hx.xxx : HDMI microcomputer	5	DSP microcomputer and HDMI microcomputer
↓ f1.000 s1.000	fx.xxx : 1st DSP firmware sx.xxx : 2nd DSP firmware	5	1st DSP firmware : Flash ROM (IC106) near the DSP IC 2nd DSP firmware : Flash ROM within the DSP IC (IC201)
↓ USB 2006. 1. 9	USB xxxx.xx.xx : USB firmware	5	USB firmware : Flash ROM (IC762) near the USB IC (IC701)
↓ Normal display			

[Notes]

1. If the version indication becomes "**," a failure in communications between the corresponding microcomputers or a failure in the corresponding microcomputers is likely.
2. In this submode, the user settings will not be cleared.
3. If the USB firmware version indication becomes "**," return the unit to Normal mode, switch Function to USB, then reenter Test mode and check the USB firmware version. If the indication becomes "**" again, communication between the main microcomputer and the USB firmware is in failure.

■ Detected protection history

[Purpose]

The numbers of detections for various protection processes are displayed.

[How to enter/exit]

During Standby mode, simultaneously press and hold the DVR/VCR1 and ENTER keys for 5 seconds to enter this mode. This mode is automatically exited when all the indications have finished.

[Basic operations]

FL Display	Description of Indications	Duration (sec.)
POWER OFF		
↓		
DC : 000	Number of DC detections	3
↓		
OVER: 010	Number of overload detections	3
↓		
CON : 002	Number of detections of cord disconnection (DC and OL DET line) (simultaneous detections of DC and OVERLOAD)	3
↓		
FAN : 002	Number of detections of fan abnormalities	3
↓		
TEMP: 255	Number of detections of abnormal temperature	3
↓		
Normal display		

[Description]

When the keys are pressed, the numbers of DC detections, overload detections, detections of connectors disconnection inside unit (It is detected by both DC and OVERLOAD detections.), detections of fan abnormalities, and detections of abnormal temperature are displayed for 3 seconds each, in that order.
The maximum value of each detections is 255.

■ Error indications when an abnormality in the amplifier system is detected

[Purpose]

An error message is displayed when an abnormality in the amplifier system is detected.

[Error Messages]

FL Display	Status	Duration (sec.)
AMP ERROR	When AMP DC is detected	Flashes 3 times.
FAN STOP	When stopping of the fan is detected	Flashes 3 times.
OVERHEAT	When a thermal shutdown (abnormal temperature), etc. is detected	Flashes 3 times.
12V TRG ERR KUXJ and KUXJCA types only	When the 12-V trigger circuit is short-circuited	Flashes
XM ANT ERR KUXJ and KUXJCA types only	The power supply of the XM antenna is abnormally	Flashes

[Description]

AMP ERROR : After a failure in the amplifier block or high DC output is detected, the shutdown process starts, then the power will be shut off. Then the MCACC LED will flash. The power cannot be turned on again. If you wish to turn on the unit after a shutdown activated by DC detection, enter Test mode, by proceeding with the steps described in "How to enter release mode" below.

FAN STOP : The fan does not function.

OVERHEAT : The temperature of the amplifier is abnormally high.

After a failure is detected, the shutdown process starts, then the power will be off. The power can be turned on again in Normal mode.

12V TRG ERR : The 12-V trigger output is short-circuited.
(KUXJ and KUXJCA types only)

XM ANT ERR : Thepower supply of the XM antenna is abnormally.
(KUXJ and KUXJCA types only)

[How to enter release mode]

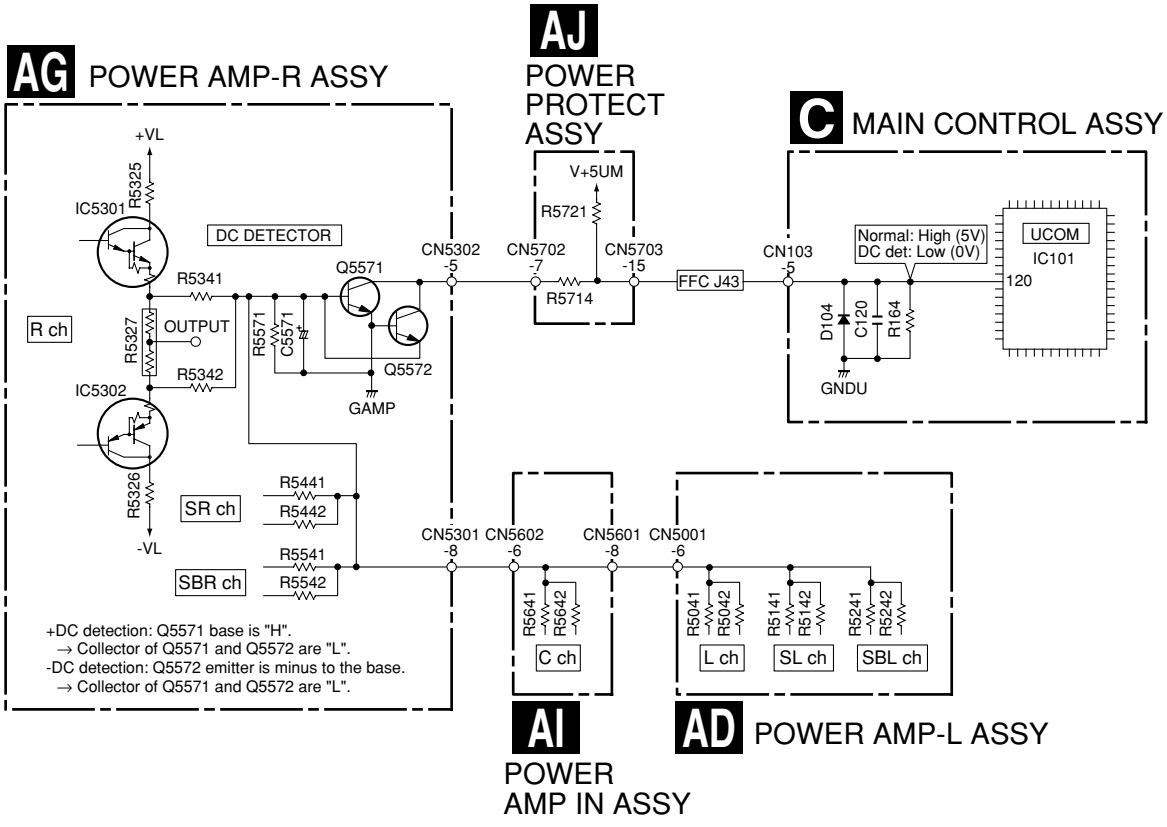
Press and hold DVR/VCR2 and ENTER keys
on the front panel simultaneously for 5 seconds in standby mode.

7.1.2 PROTECTION CIRCUIT SPECIFICATION

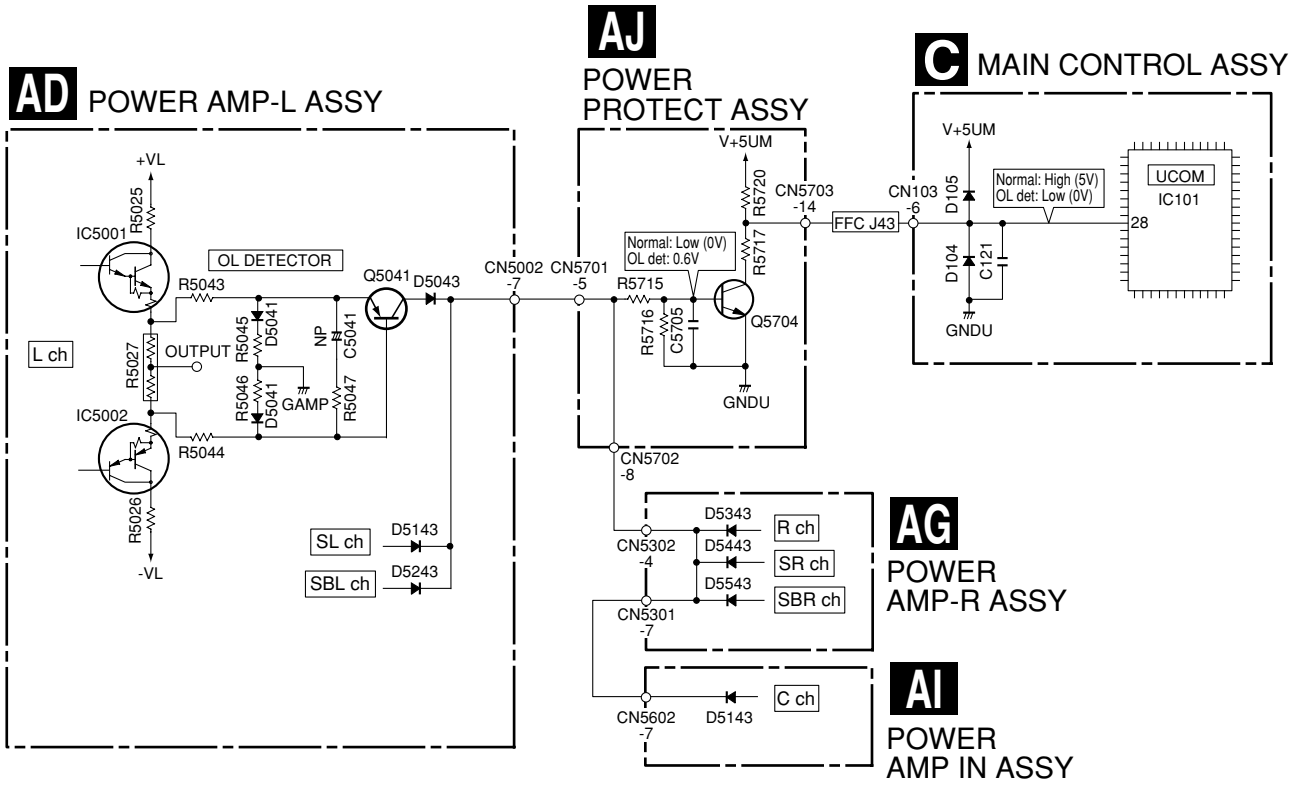
● Protection Circuit Process List

Item	Purpose	Detection Method	Process	Warning Indication	Remarks
DC detection	To detect amplifier damage (defect status) A process to protect speakers (for protection of connected external devices)	Detects when the DC_PROTECT port becomes "L". (Pin 120 of IC101)	Turns muting on and speaker relay off, then turns off the power after 3 seconds. Then flashes MCACC indicator.	Flashing "AMP ERR" for 3 seconds.	Once detected and turned the power off, input a key never again. If the DC_DET port becomes "H" within 3 seconds, the unit returns to normal condition automatically.
AMP overload	To detect overloading (abnormal status) With low-load driving or a short circuit of the speaker terminals (for protection of the amplifier)	Detects when the OL_DET port becomes "L" (checks by interrupt). (Pin 28 of IC101)	Turns muting on and speaker relay off, and immediately turns off the power. Then flashes PHASE CONTROL indicator.	None	
Overheat detection	Self reset type protection feature by temperature-rise of heat sink	Detects when the TEMP2 port becomes "H" . (Pin 44 of IC2301)	Turns muting on and speaker relay off, then turns off the power after 3 seconds.	Flashing "OVERHEAT" for 3 seconds.	If the TEMP2 port becomes "L" within 3 seconds, the unit returns to normal condition automatically.
12V trigger failure detection	To detect the shortcircuit of 12V trigger output (load more than 50mA) (for protection of the amplifier)	Detects when the 12VDET port decoms "H". (Pin 44 of IC2301)	Turns 12V trigger output to off.	Flashing "12V ERR"	Continue showing warning. Release the FL indication by switching the INPUT SEL or the turns the power off.

● DC Detection Circuit



● OL (Over Load) Detection Circuit



7.1.3 DSP TROUBLESHOOTING

■ Simplified diagnosis

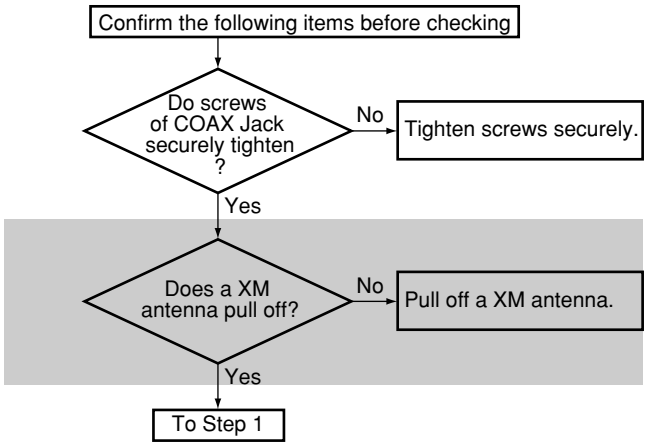
Herein is described how to easily diagnose a defective part in the DSP Assy, only with operations of the main unit.

- If the sound is not output when Sound Delay is ON
  If the sound is output without a problem when Sound Delay is OFF (0.0 fr) but an abnormality in the sound is detected when Sound Delay is ON (0.1 to 6.0 fr), it is most likely that SRAM (IC107) or DECODER IC (IC105) in the 1st DSP block is in failure.

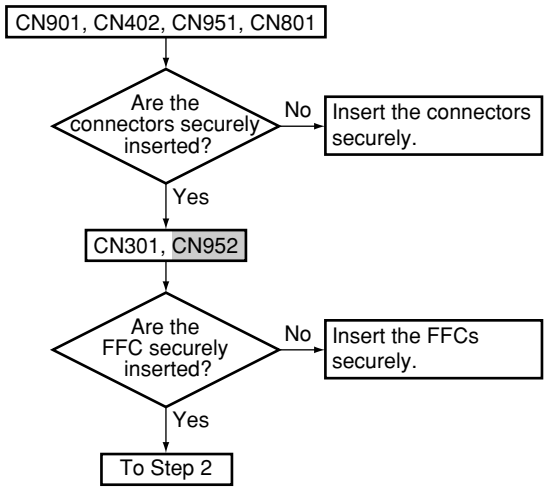
■ Troubleshooting

- It is assumed that there is no loose connection or damage in the LCRs.
- : KUXJ and KUXJCA types only

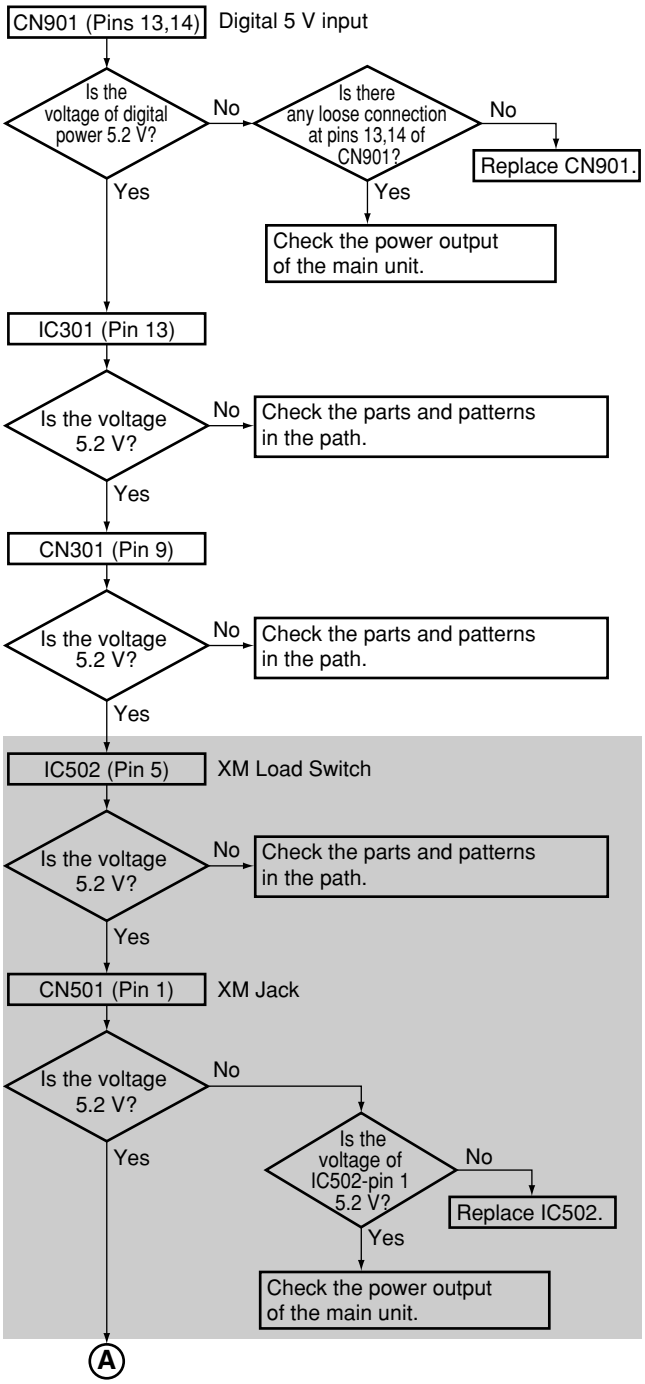
Step 0: Preliminary confirmation

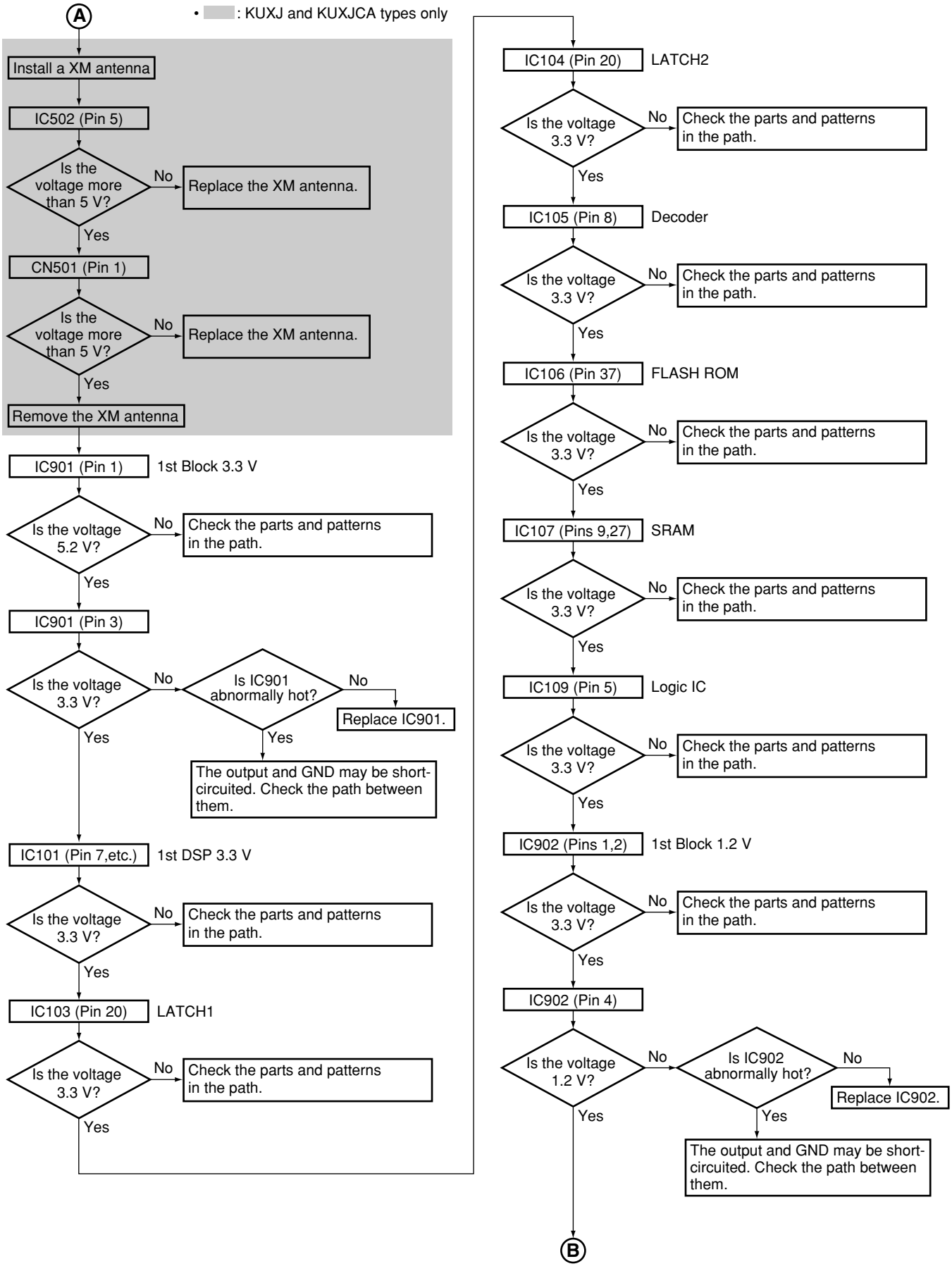


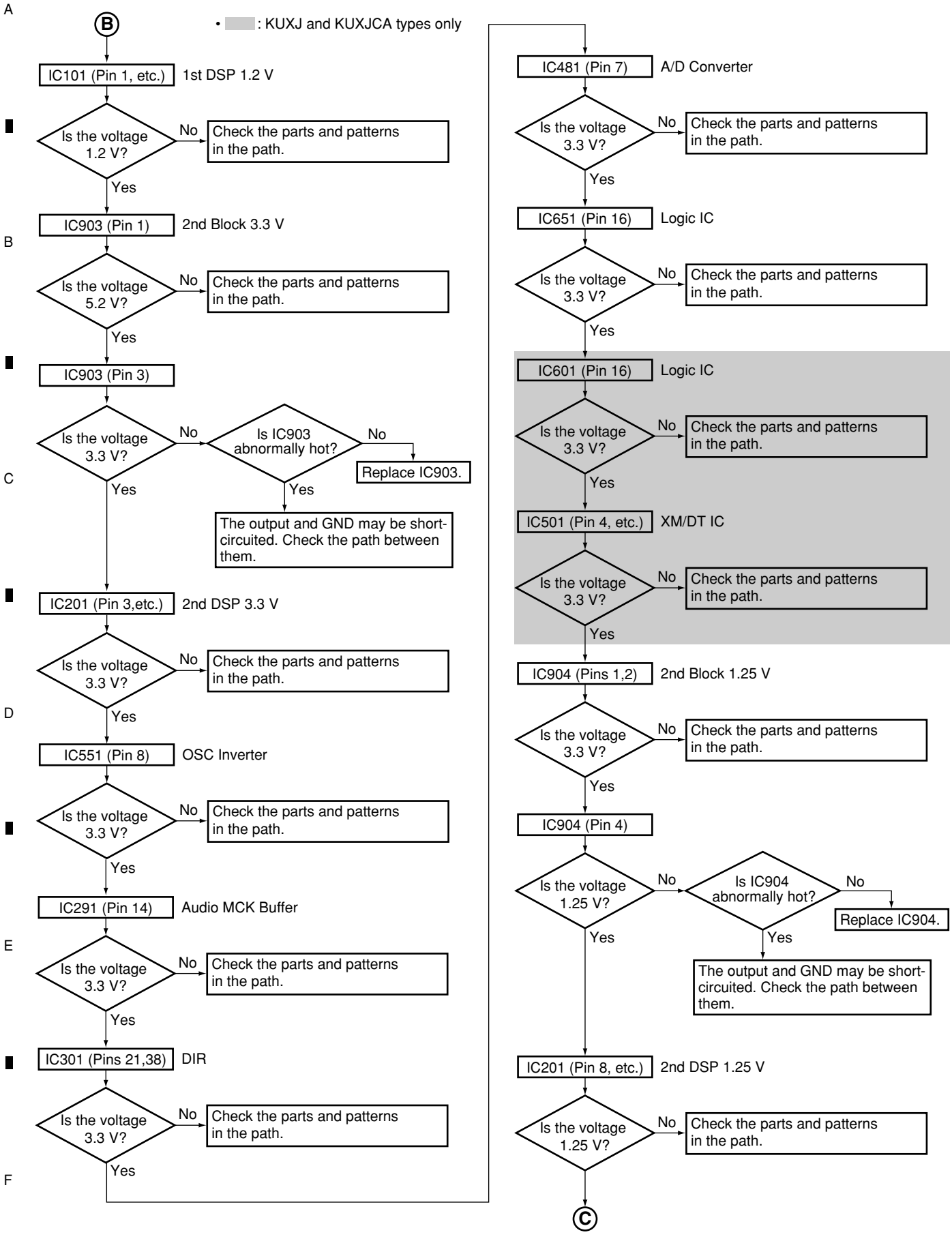
Step 1: Connections



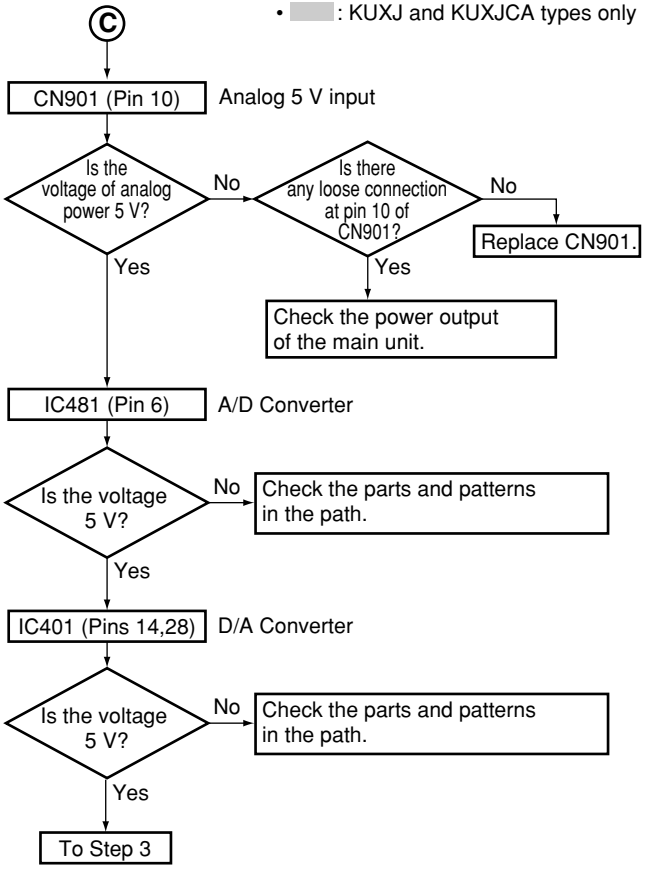
Step 2: Power supply



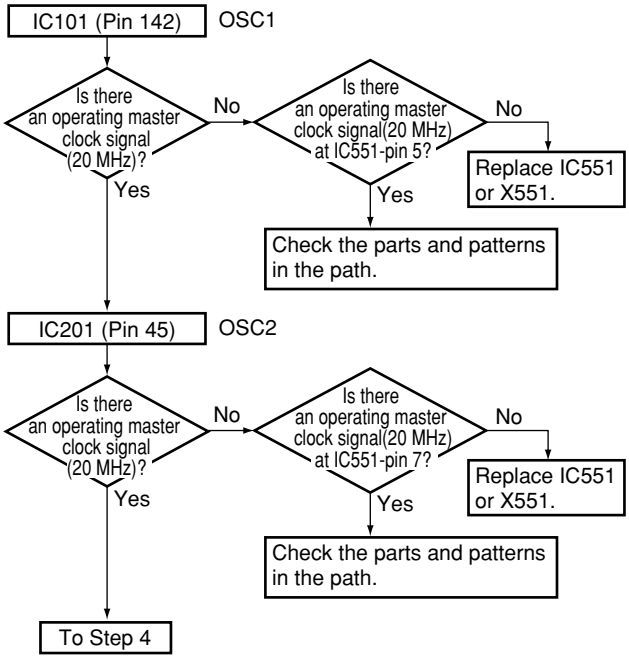

A
• : KUXJ and KUXJCA types only
Install a XM antenna
IC502 (Pin 5)
Is the voltage more than 5 V?
No
Replace the XM antenna.
Yes
CN501 (Pin 1)
Is the voltage more than 5 V?
No
Replace the XM antenna.
Yes
Remove the XM antenna
IC901 (Pin 1)
1st Block 3.3 V
Is the voltage 5.2 V?
No
Check the parts and patterns in the path.
Yes
IC901 (Pin 3)
Is the voltage 3.3 V?
No
Is IC901 abnormally hot?
No
Replace IC901.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
IC101 (Pin 7,etc.)
1st DSP 3.3 V
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC103 (Pin 20)
LATCH1
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC104 (Pin 20)
LATCH2
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC105 (Pin 8)
Decoder
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC106 (Pin 37)
FLASH ROM
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC107 (Pins 9,27)
SRAM
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC109 (Pin 5)
Logic IC
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC902 (Pins 1,2)
1st Block 1.2 V
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC902 (Pin 4)
Is the voltage 1.2 V?
No
Is IC902 abnormally hot?
No
Replace IC902.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
B


B
• : KUXJ and KUXJCA types only
IC101 (Pin 1, etc.)
1st DSP 1.2 V
Is the voltage 1.2 V?
No
Check the parts and patterns in the path.
Yes
IC903 (Pin 1)
2nd Block 3.3 V
Is the voltage 5.2 V?
No
Check the parts and patterns in the path.
Yes
IC903 (Pin 3)
Is the voltage 3.3 V?
No
Is IC903 abnormally hot?
No
Replace IC903.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
IC201 (Pin 3,etc.)
2nd DSP 3.3 V
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC551 (Pin 8)
OSC Inverter
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC291 (Pin 14)
Audio MCK Buffer
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC301 (Pins 21,38)
DIR
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC481 (Pin 7)
A/D Converter
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC651 (Pin 16)
Logic IC
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC601 (Pin 16)
Logic IC
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC501 (Pin 4, etc.)
XM/DT IC
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC904 (Pins 1,2)
2nd Block 1.25 V
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
IC904 (Pin 4)
Is the voltage 1.25 V?
No
Is IC904 abnormally hot?
No
Replace IC904.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
IC201 (Pin 8, etc.)
2nd DSP 1.25 V
Is the voltage 1.25 V?
No
Check the parts and patterns in the path.
C

• : KUXJ and KUXJCA types only



Step 3: Operating Master Clock

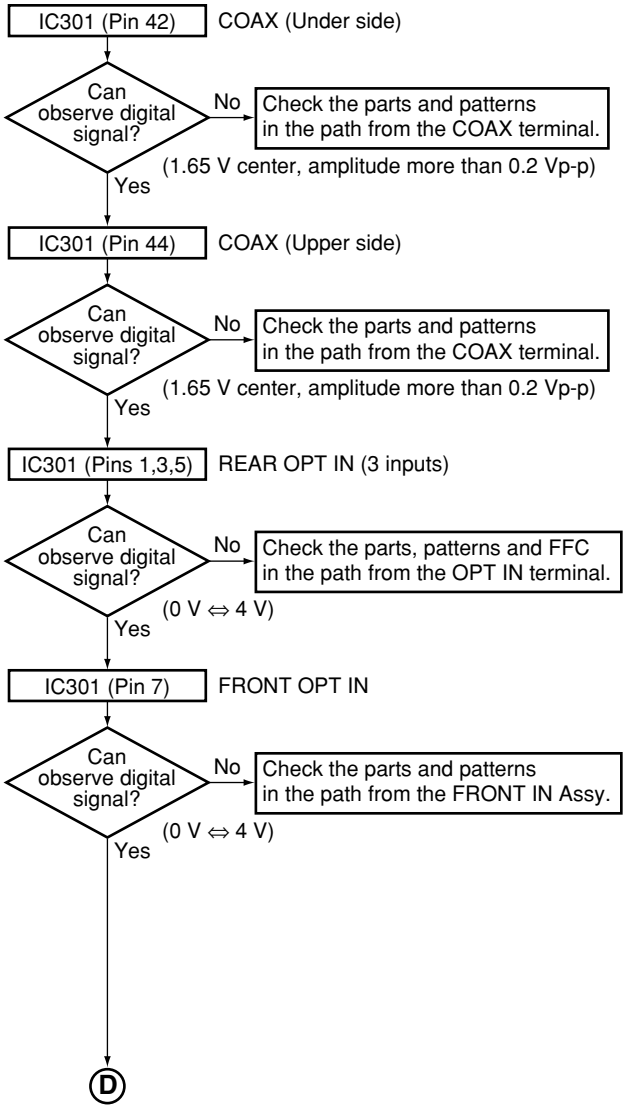

IC101 (Pin 142)
OSC1
Is there an operating master clock signal (20 MHz)?
No
Is there an operating master clock signal(20 MHz) at IC551-pin 5?
No
Replace IC551 or X551.
Yes
Yes
Check the parts and patterns in the path.
IC201 (Pin 45)
OSC2
Is there an operating master clock signal (20 MHz)?
No
Is there an operating master clock signal(20 MHz) at IC551-pin 7?
No
Replace IC551 or X551.
Yes
Yes
Check the parts and patterns in the path.
To Step 4

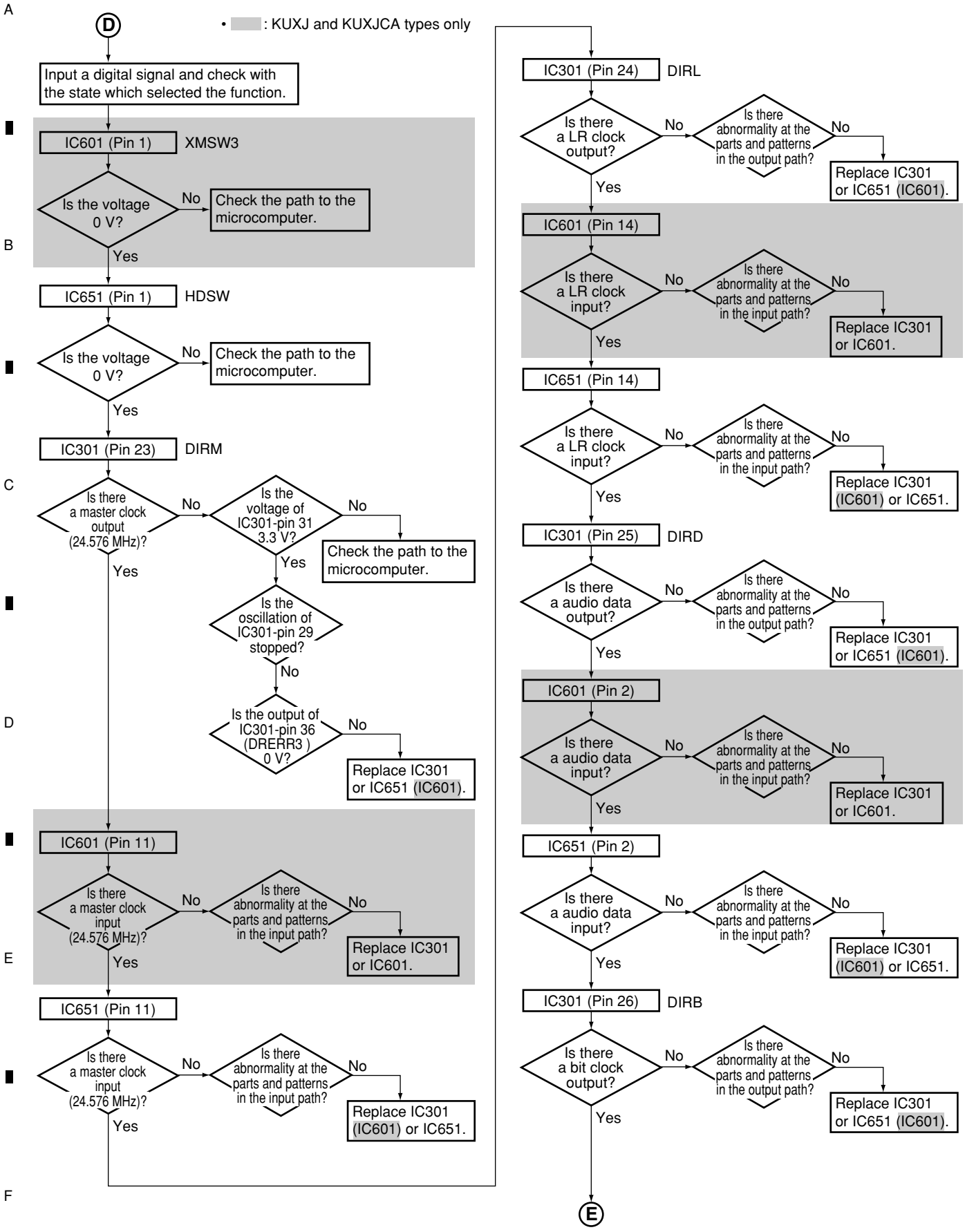
Step 4: Audio Clock (Until Switch)

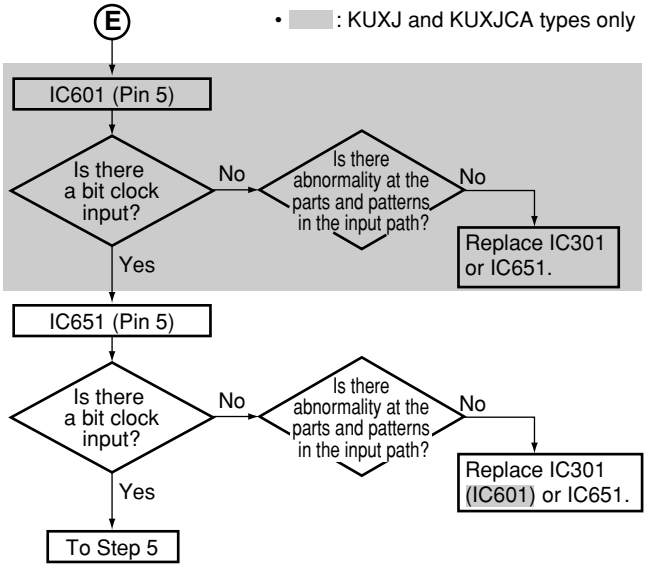
- When a sound is not out with the digital (COAX, OPT IN) signal input. → Go to Step 4-1
- When a sound is not out with the analog signal input. → Go to Step 4-2
- When a sound is not out with the HDMI. (It is assumption that failure diagnosis of HDMI assy completed)
  When the source is DVD-A or PCM96k → Go to Step 4-3-1
  When the source is compression or less than PCM48k → Go to Step 4-3-2
- When a sound is not out with the XM Radio. → Go to Step 4-4

Step 4-1: When a sound is not out with the digital (COAX, OPT IN) signal input

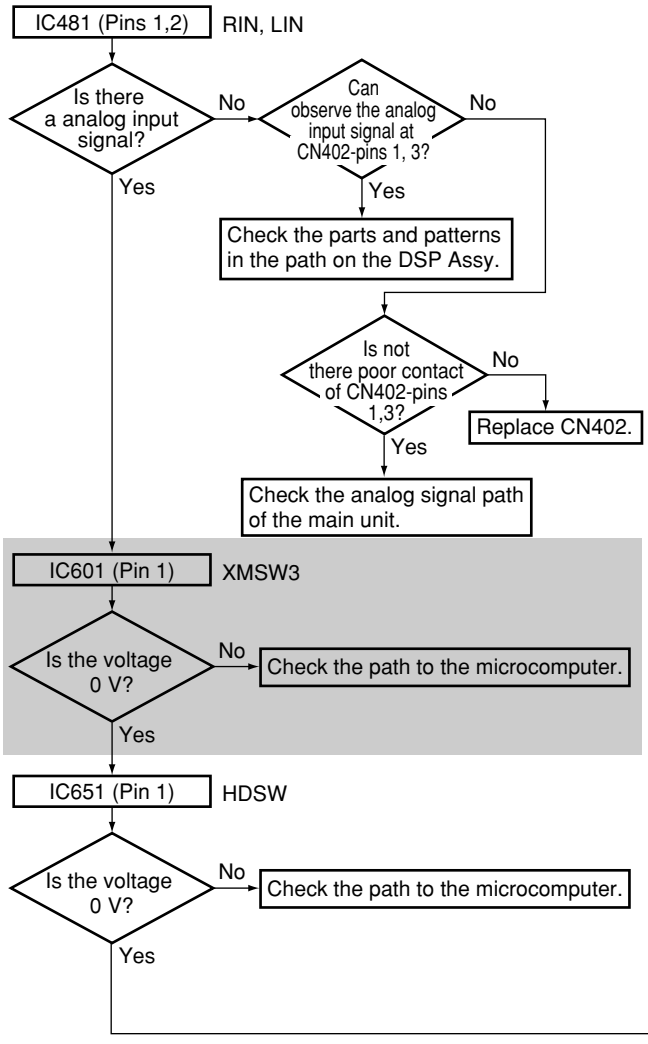
Check that changes by pulling out and inserting the digital input lines. (Function is able to change the assignment. Therefore it is not specified.)

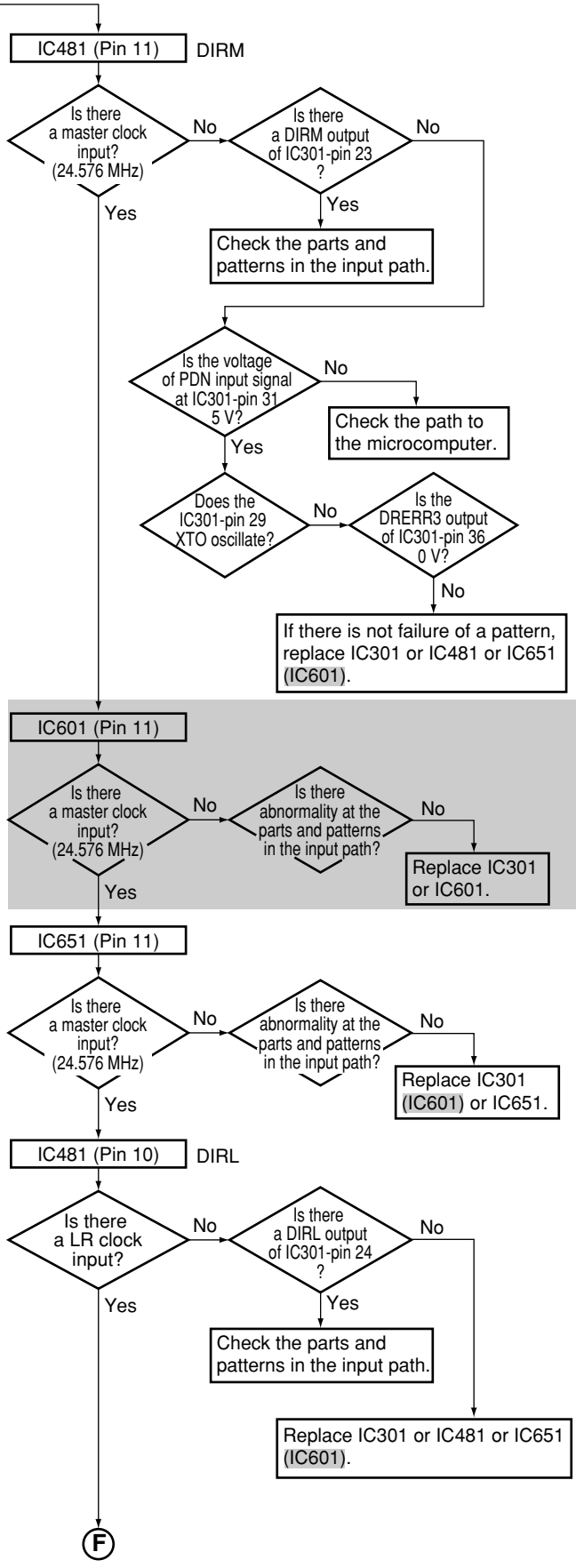

IC301 (Pin 42)
COAX (Under side)
Can observe digital signal?
No
Check the parts and patterns in the path from the COAX terminal.
(1.65 V center, amplitude more than 0.2 Vp-p)
Yes
IC301 (Pin 44)
COAX (Upper side)
Can observe digital signal?
No
Check the parts and patterns in the path from the COAX terminal.
(1.65 V center, amplitude more than 0.2 Vp-p)
Yes
IC301 (Pins 1,3,5)
REAR OPT IN (3 inputs)
Can observe digital signal?
No
Check the parts, patterns and FFC in the path from the OPT IN terminal.
(0 V ⇔ 4 V)
Yes
IC301 (Pin 7)
FRONT OPT IN
Can observe digital signal?
No
Check the parts and patterns in the path from the FRONT IN Assy.
(0 V ⇔ 4 V)
Yes
D

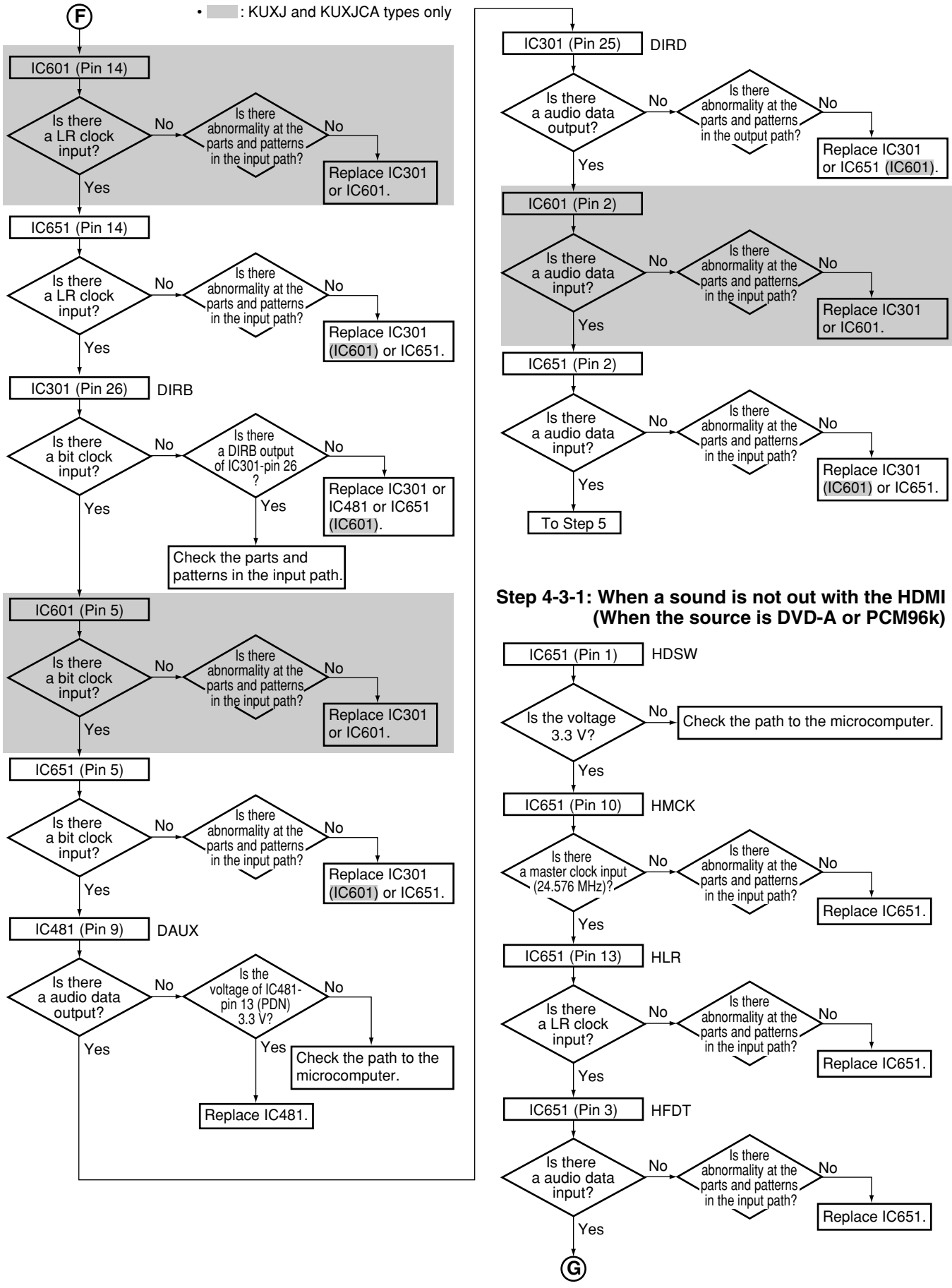

D
• : KUXJ and KUXJCA types only
Input a digital signal and check with the state which selected the function.
IC601 (Pin 1)
XMSW3
Is the voltage 0 V?
No
Check the path to the microcomputer.
Yes
IC651 (Pin 1)
HDSW
Is the voltage 0 V?
No
Check the path to the microcomputer.
Yes
IC301 (Pin 23)
DIRM
Is there a master clock output (24.576 MHz)?
No
Is the voltage of IC301-pin 31 3.3 V?
No
Check the path to the microcomputer.
Yes
Is the oscillation of IC301-pin 29 stopped?
No
Is the output of IC301-pin 36 (DRERR3) 0 V?
No
Replace IC301 or IC651 (IC601).
Yes
IC601 (Pin 11)
Is there a master clock input (24.576 MHz)?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 or IC601.
Yes
IC651 (Pin 11)
Is there a master clock input (24.576 MHz)?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 (IC601) or IC651.
Yes
IC301 (Pin 24)
DIRL
Is there a LR clock output?
No
Is there abnormality at the parts and patterns in the output path?
No
Replace IC301 or IC651 (IC601).
Yes
IC601 (Pin 14)
Is there a LR clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 or IC601.
Yes
IC651 (Pin 14)
Is there a LR clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 (IC601) or IC651.
Yes
IC301 (Pin 25)
DIRD
Is there a audio data output?
No
Is there abnormality at the parts and patterns in the output path?
No
Replace IC301 or IC651 (IC601).
Yes
IC601 (Pin 2)
Is there a audio data input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 or IC601.
Yes
IC651 (Pin 2)
Is there a audio data input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 (IC601) or IC651.
Yes
IC301 (Pin 26)
DIRB
Is there a bit clock output?
No
Is there abnormality at the parts and patterns in the output path?
No
Replace IC301 or IC651 (IC601).
Yes
E


E
• : KUXJ and KUXJCA types only
IC601 (Pin 5)
Is there a bit clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 or IC651.
Yes
IC651 (Pin 5)
Is there a bit clock input?
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 (IC601) or IC651.
Yes
To Step 5

Step 4-2: When a sound is not out with the analog signal input

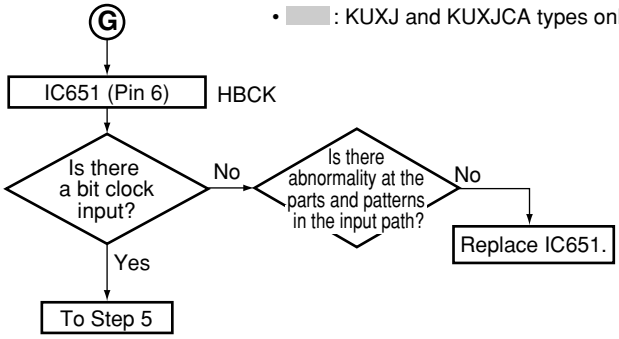



IC481 (Pin 11)
DIRM
Is there a master clock input? (24.576 MHz)
No
Is there a DIRM output of IC301-pin 23 ?
No
Yes
Yes
Check the parts and patterns in the input path.
Is the voltage of PDN input signal at IC301-pin 31 5 V?
No
Check the path to the microcomputer.
Yes
Does the IC301-pin 29 XTO oscillate?
No
Is the DRERR3 output of IC301-pin 36 0 V?
No
If there is not failure of a pattern, replace IC301 or IC481 or IC651 (IC601).
IC601 (Pin 11)
Is there a master clock input? (24.576 MHz)
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 or IC601.
Yes
IC651 (Pin 11)
Is there a master clock input? (24.576 MHz)
No
Is there abnormality at the parts and patterns in the input path?
No
Replace IC301 (IC601) or IC651.
Yes
IC481 (Pin 10)
DIRL
Is there a LR clock input?
No
Is there a DIRL output of IC301-pin 24 ?
No
Yes
Yes
Check the parts and patterns in the input path.
Replace IC301 or IC481 or IC651 (IC601).
F

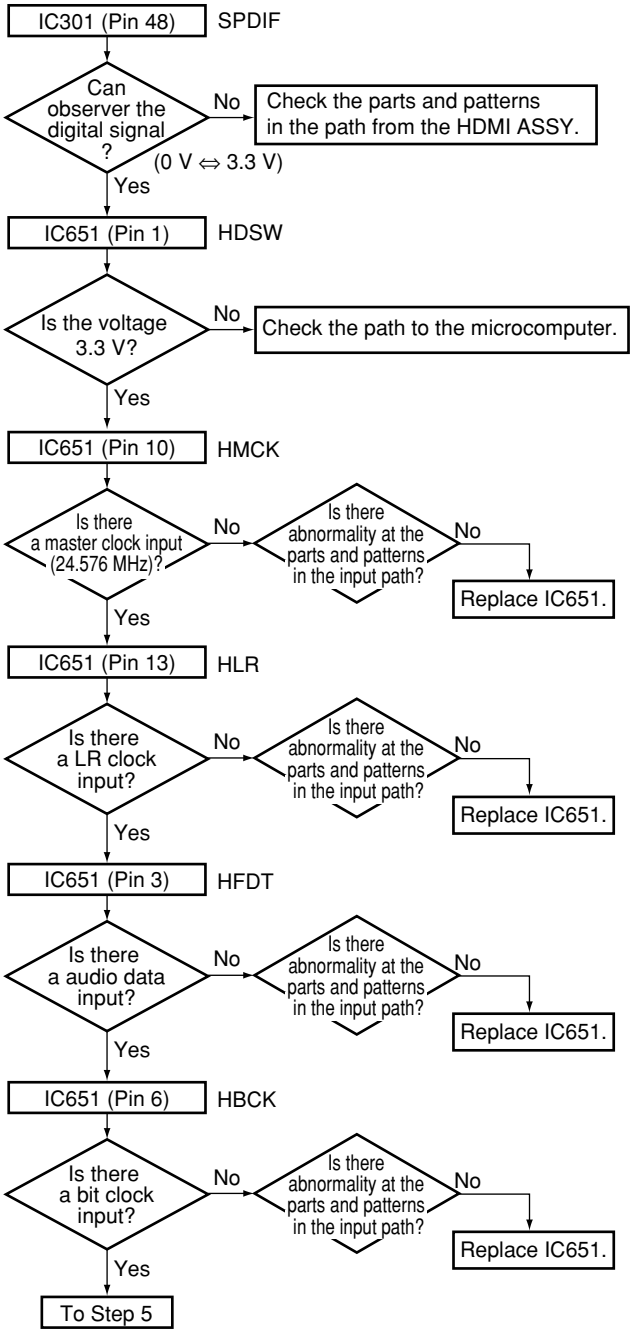


Step 4-3-1: When a sound is not out with the HDMI (When the source is DVD-A or PCM96k)

• : KUXJ and KUXJCA types only

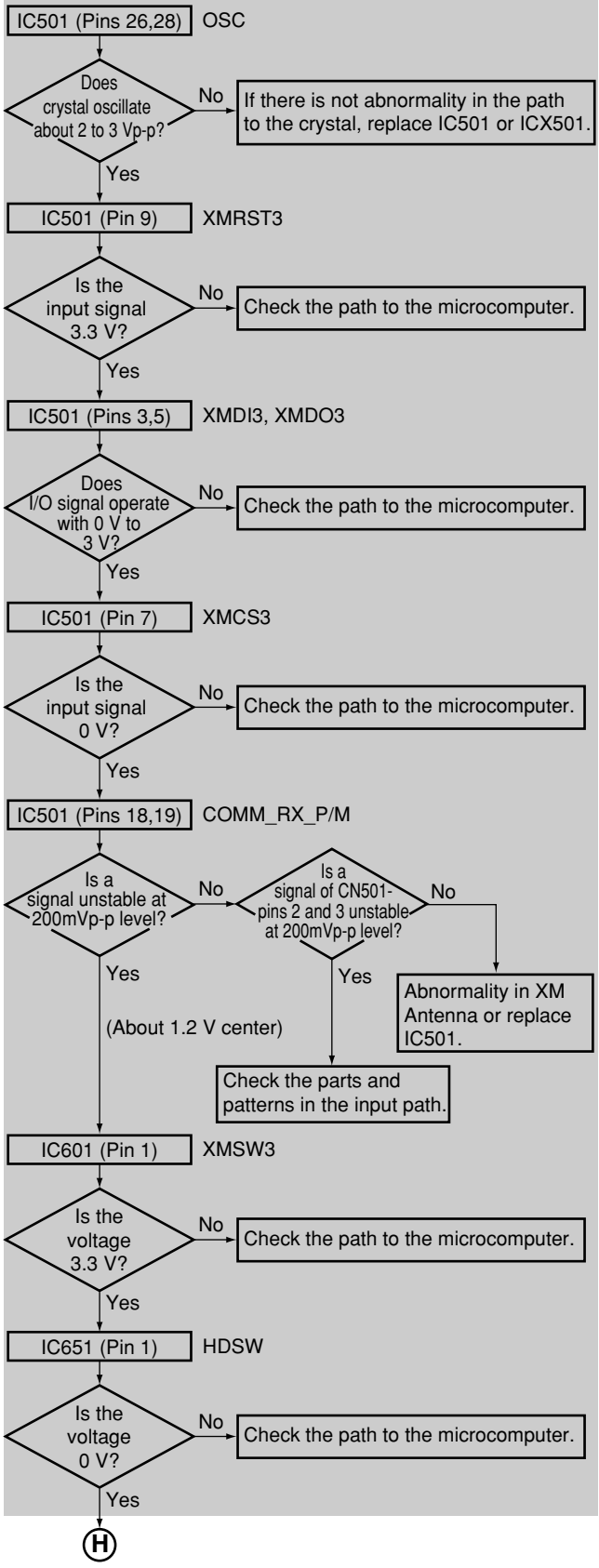


Step 4-3-2: When a sound is not out with the HDMI (When the source is compression or less than PCM48k)

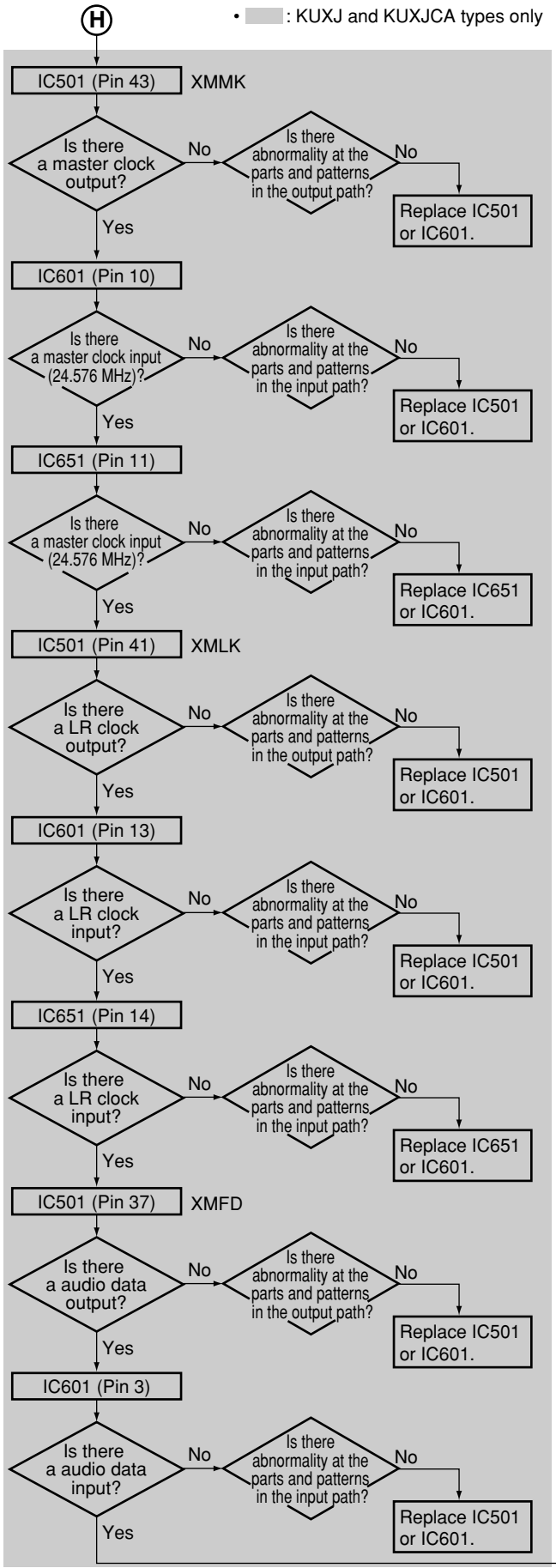


Step 4-4: When a sound is not out with the XM Radio

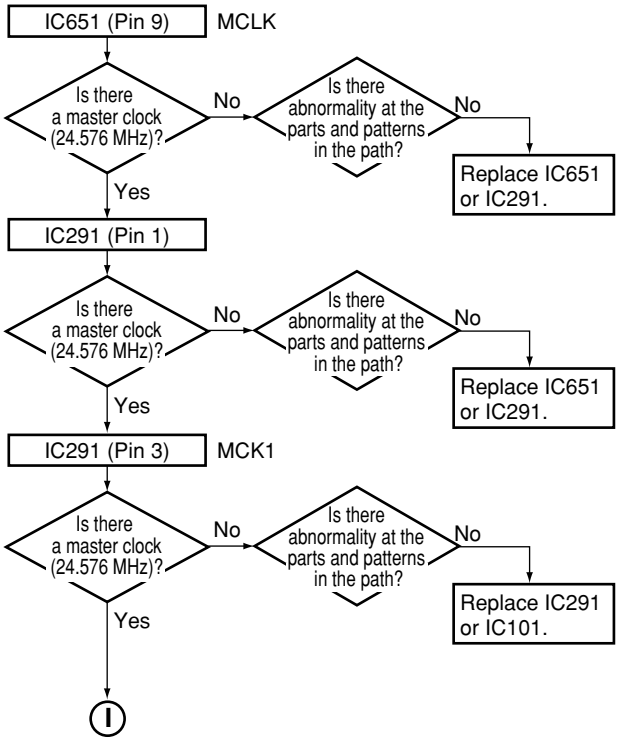
Insert the XM Antenna and check it.

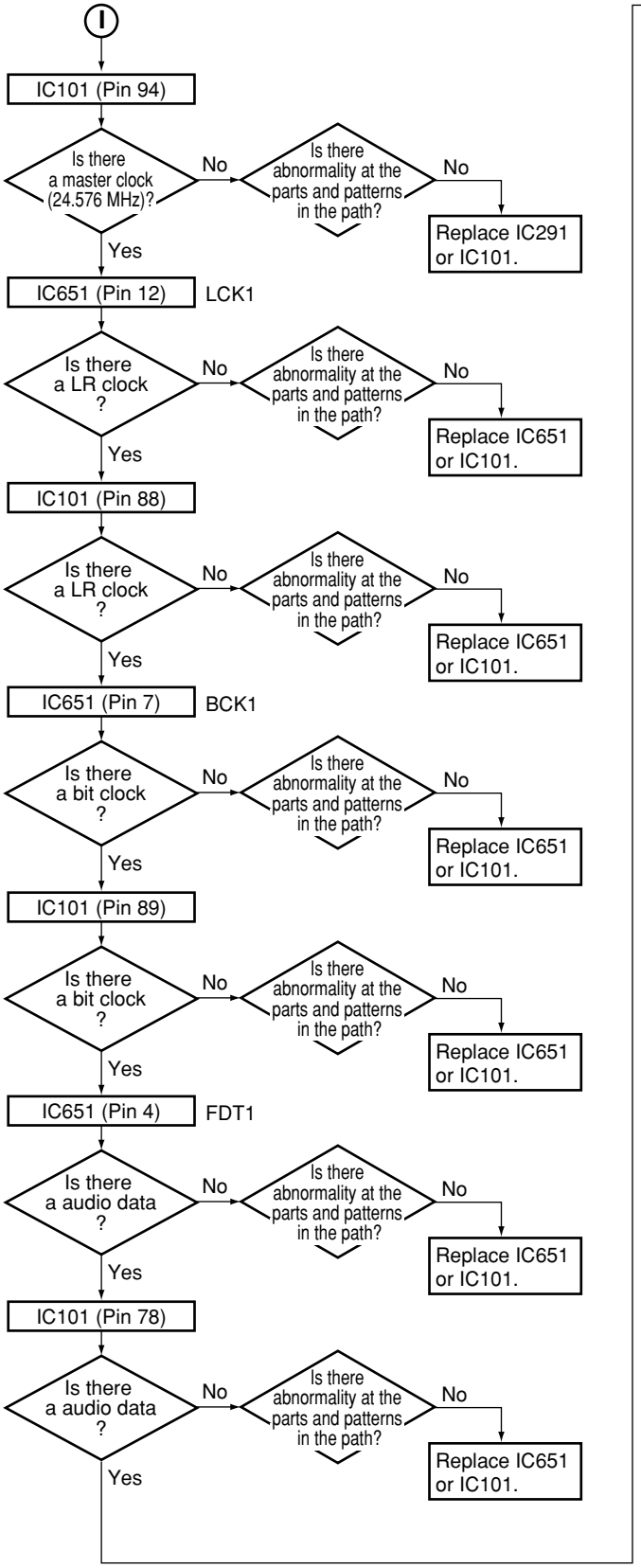


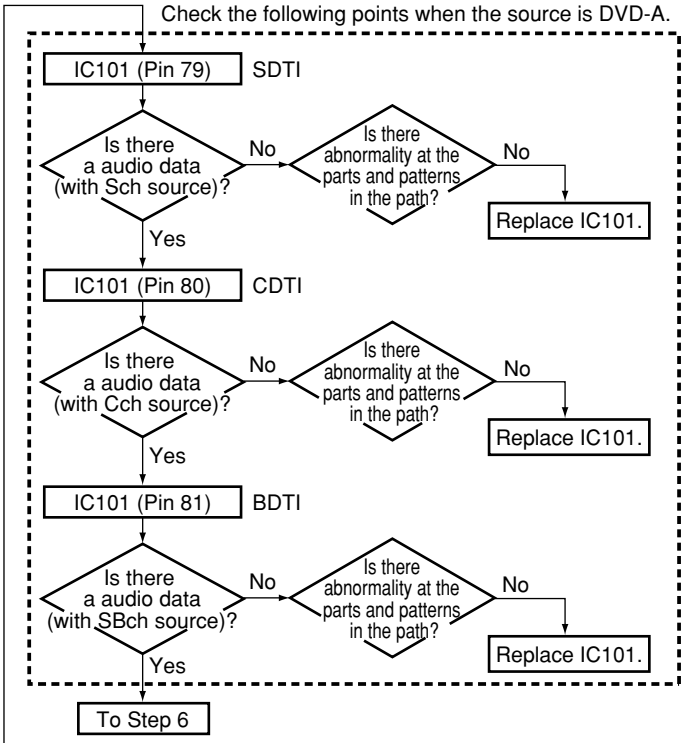
• : KUXJ and KUXJCA types only



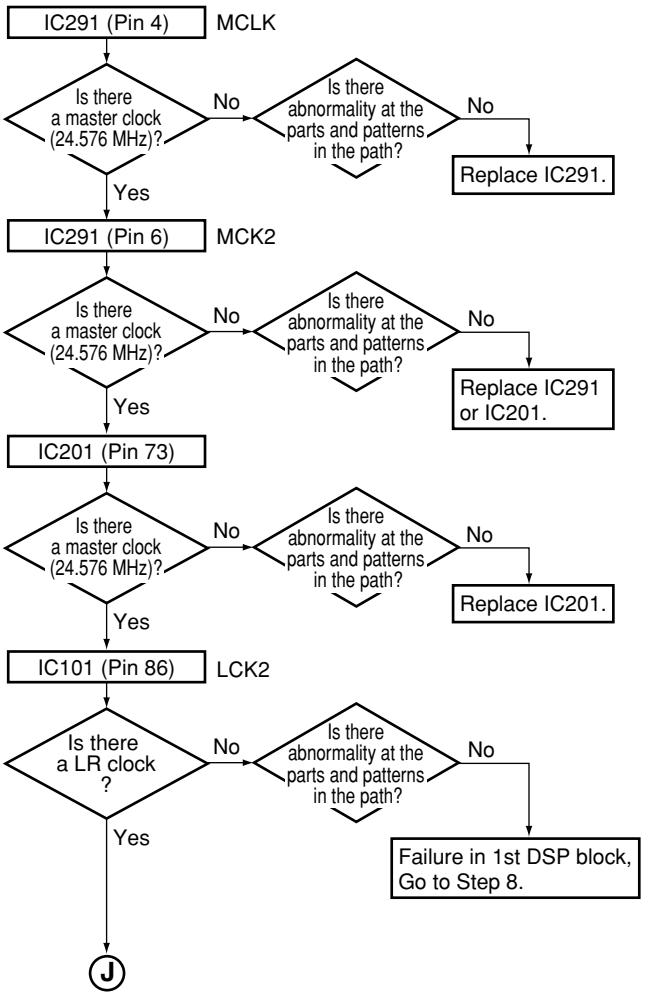
Step 5: Audio Clock (1st DSP from Switch)

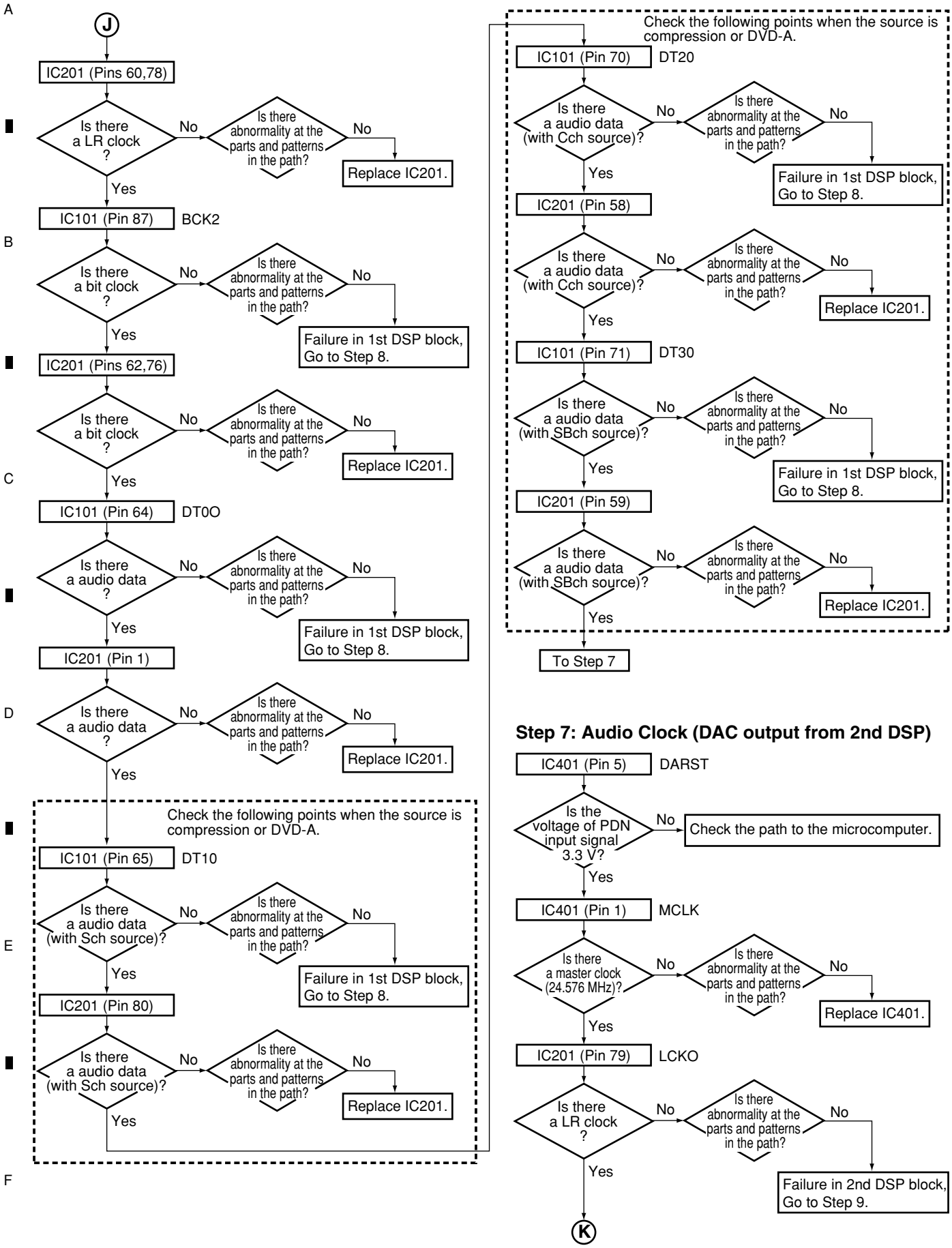




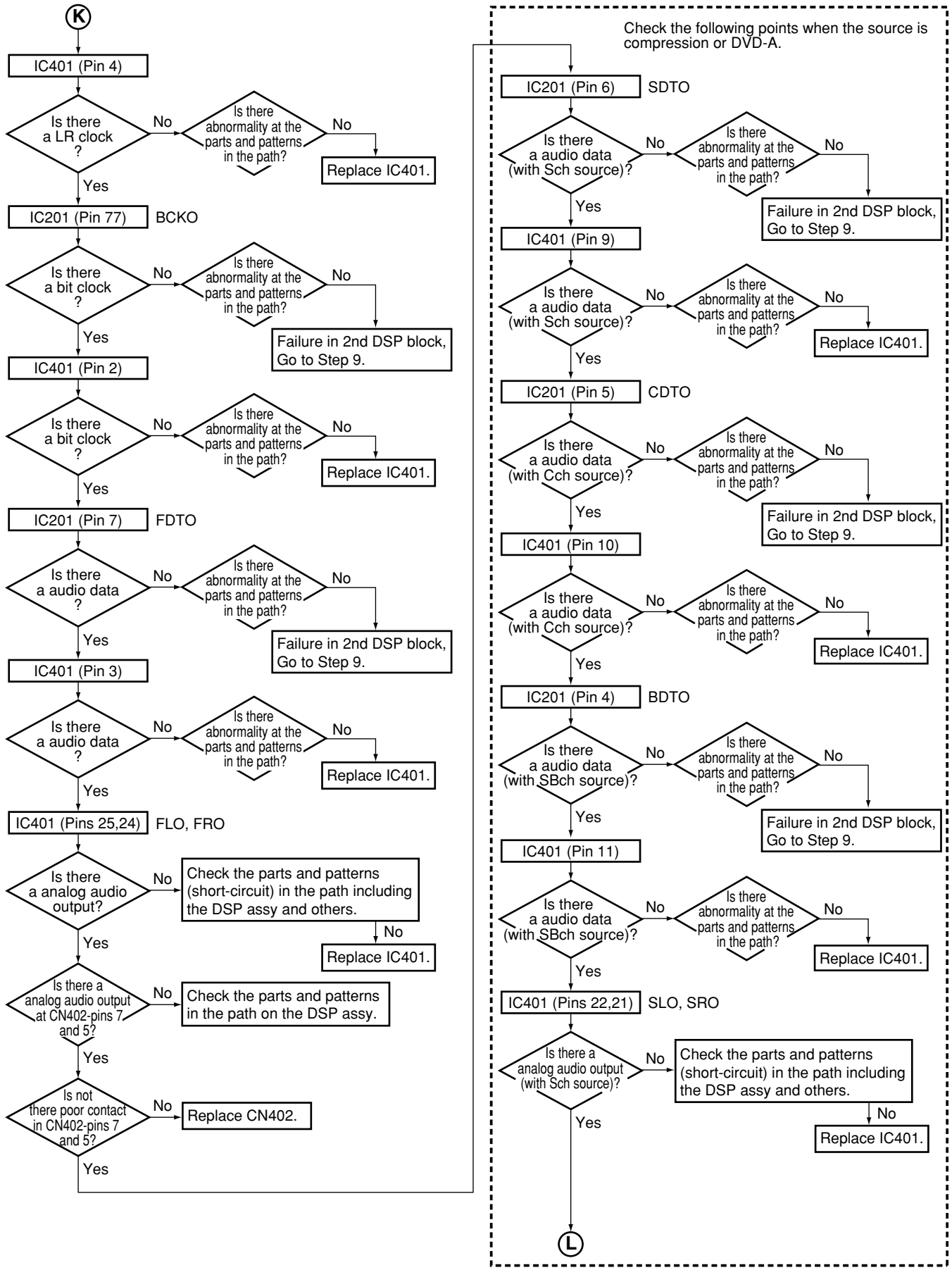


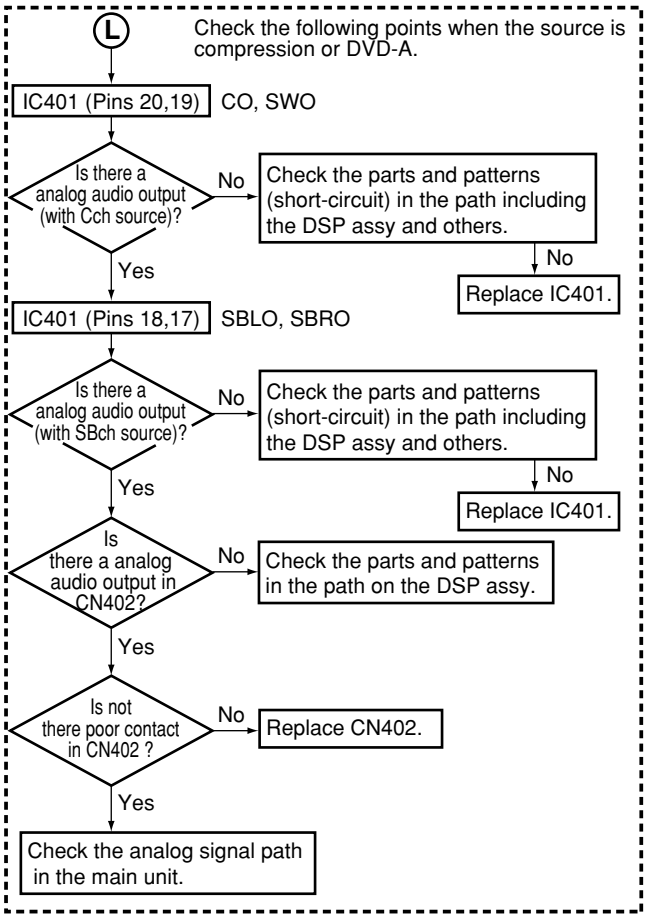
Step 6: Audio Clock (2nd DSP from 1st DSP)



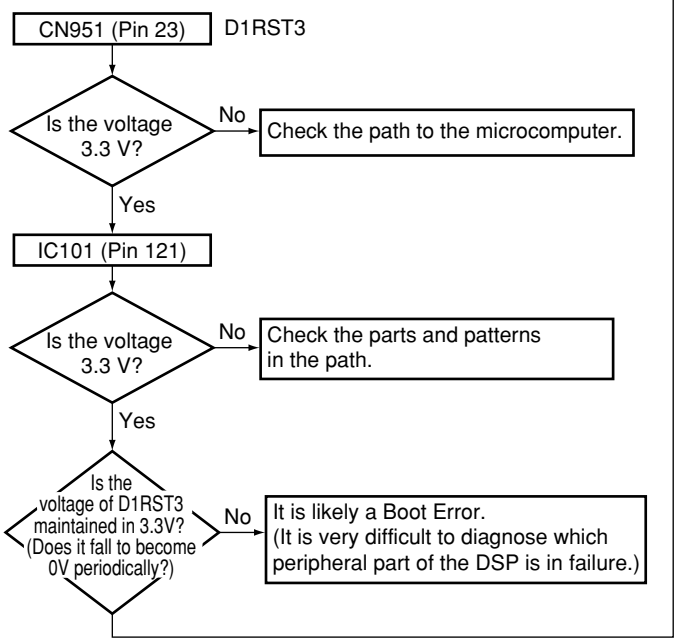

J
IC201 (Pins 60,78)
Is there a LR clock ?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC201.
Yes
IC101 (Pin 87)
BCK2
Is there a bit clock ?
No
Is there abnormality at the parts and patterns in the path?
No
Failure in 1st DSP block, Go to Step 8.
Yes
IC201 (Pins 62,76)
Is there a bit clock ?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC201.
Yes
IC101 (Pin 64)
DT0O
Is there a audio data ?
No
Is there abnormality at the parts and patterns in the path?
No
Failure in 1st DSP block, Go to Step 8.
Yes
IC201 (Pin 1)
Is there a audio data ?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC201.
Yes
Check the following points when the source is compression or DVD-A.
IC101 (Pin 65)
DT10
Is there a audio data (with Sch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Failure in 1st DSP block, Go to Step 8.
Yes
IC201 (Pin 80)
Is there a audio data (with Sch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC201.
Yes
Check the following points when the source is compression or DVD-A.
IC101 (Pin 70)
DT20
Is there a audio data (with Cch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Failure in 1st DSP block, Go to Step 8.
Yes
IC201 (Pin 58)
Is there a audio data (with Cch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC201.
Yes
IC101 (Pin 71)
DT30
Is there a audio data (with SBch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Failure in 1st DSP block, Go to Step 8.
Yes
IC201 (Pin 59)
Is there a audio data (with SBch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC201.
Yes
To Step 7

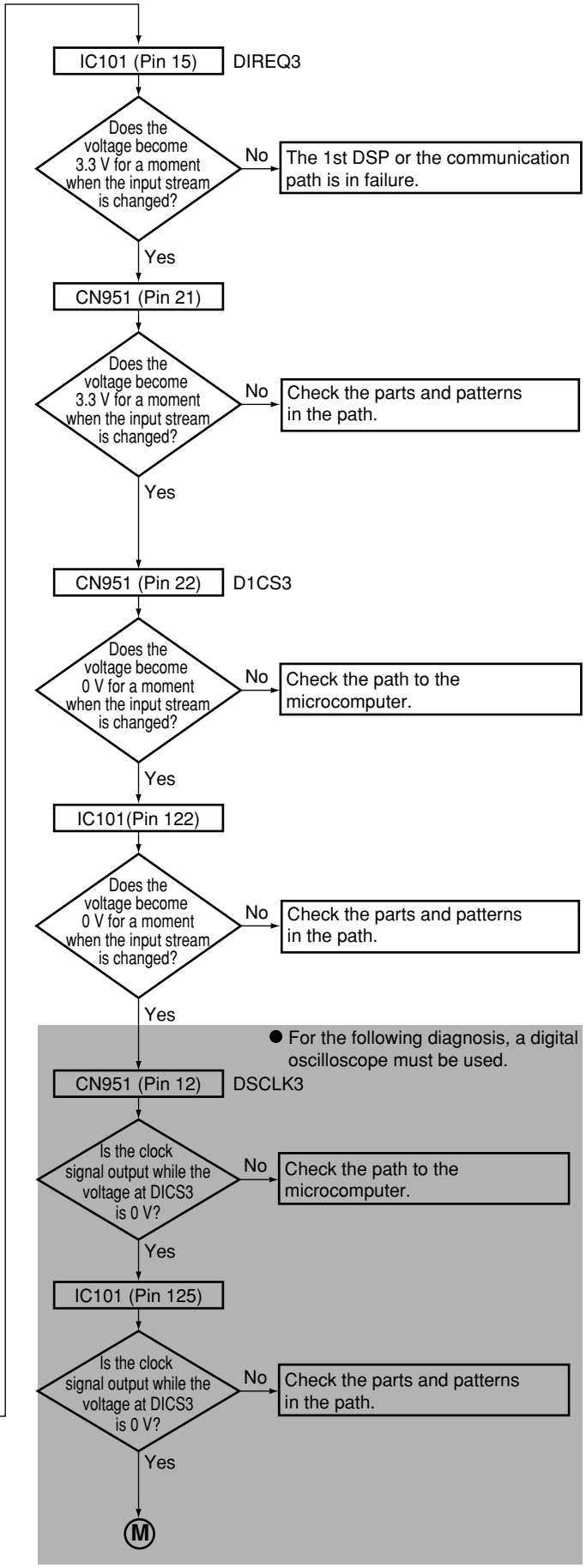
Step 7: Audio Clock (DAC output from 2nd DSP)

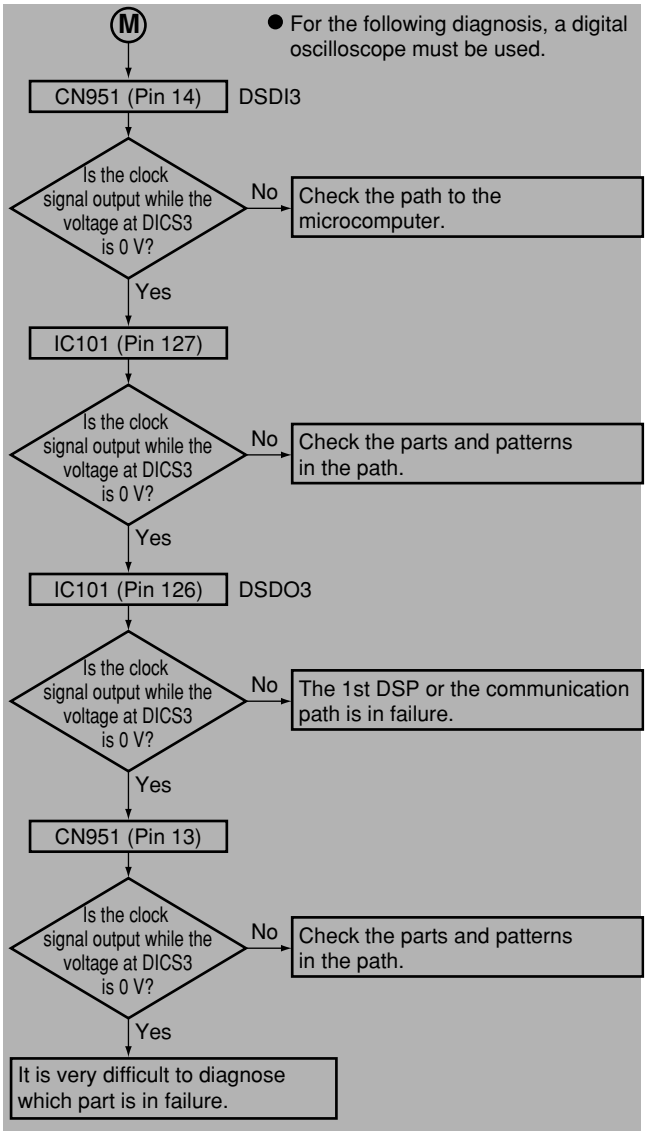

K
IC401 (Pin 4)
Is there a LR clock ?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC401.
Yes
IC201 (Pin 77) BCKO
Is there a bit clock ?
No
Is there abnormality at the parts and patterns in the path?
No
Failure in 2nd DSP block, Go to Step 9.
Yes
IC401 (Pin 2)
Is there a bit clock ?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC401.
Yes
IC201 (Pin 7) FDTO
Is there a audio data ?
No
Is there abnormality at the parts and patterns in the path?
No
Failure in 2nd DSP block, Go to Step 9.
Yes
IC401 (Pin 3)
Is there a audio data ?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC401.
Yes
IC401 (Pins 25,24) FLO, FRO
Is there a analog audio output?
No
Check the parts and patterns (short-circuit) in the path including the DSP assy and others.
No
Replace IC401.
Yes
Is there a analog audio output at CN402-pins 7 and 5?
No
Check the parts and patterns in the path on the DSP assy.
Yes
Is not there poor contact in CN402-pins 7 and 5?
No
Replace CN402.
Yes
Check the following points when the source is compression or DVD-A.
IC201 (Pin 6) SDTO
Is there a audio data (with Sch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Failure in 2nd DSP block, Go to Step 9.
Yes
IC401 (Pin 9)
Is there a audio data (with Sch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC401.
Yes
IC201 (Pin 5) CDTO
Is there a audio data (with Cch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Failure in 2nd DSP block, Go to Step 9.
Yes
IC401 (Pin 10)
Is there a audio data (with Cch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC401.
Yes
IC201 (Pin 4) BDTO
Is there a audio data (with SBch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Failure in 2nd DSP block, Go to Step 9.
Yes
IC401 (Pin 11)
Is there a audio data (with SBch source)?
No
Is there abnormality at the parts and patterns in the path?
No
Replace IC401.
Yes
IC401 (Pins 22,21) SLO, SRO
Is there a analog audio output (with Sch source)?
No
Check the parts and patterns (short-circuit) in the path including the DSP assy and others.
No
Replace IC401.
Yes
L


L
Check the following points when the source is compression or DVD-A.
IC401 (Pins 20,19)
CO, SWO
Is there a analog audio output (with Cch source)?
No
Check the parts and patterns (short-circuit) in the path including the DSP assy and others.
No
Replace IC401.
Yes
IC401 (Pins 18,17)
SBLO, SBRO
Is there a analog audio output (with SBch source)?
No
Check the parts and patterns (short-circuit) in the path including the DSP assy and others.
No
Replace IC401.
Yes
Is there a analog audio output in CN402?
No
Check the parts and patterns in the path on the DSP assy.
Yes
Is not there poor contact in CN402 ?
No
Replace CN402.
Yes
Check the analog signal path in the main unit.

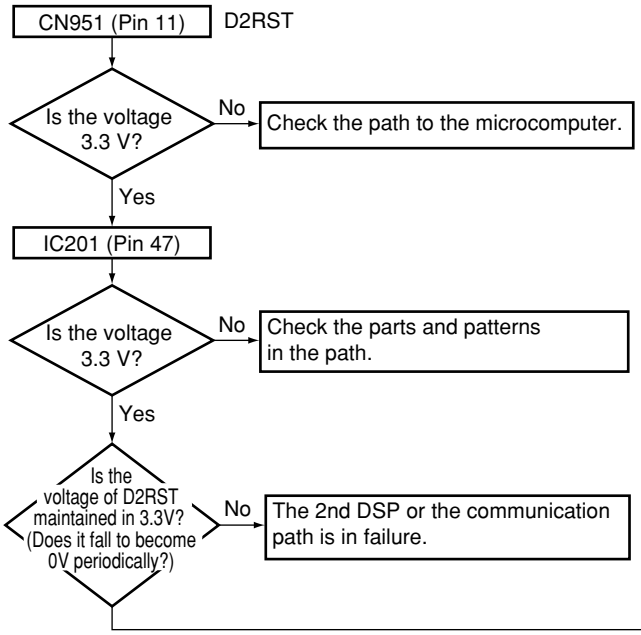
Step 8: 1st DSP

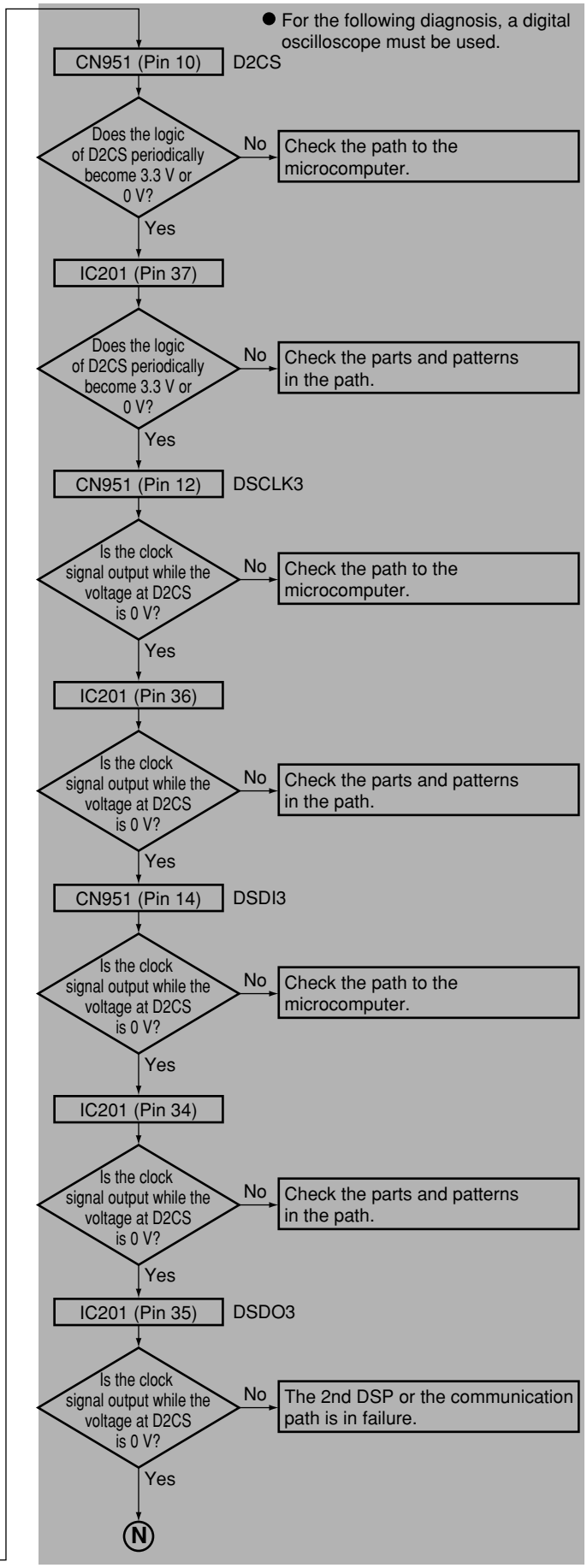

CN951 (Pin 23)
D1RST3
Is the voltage 3.3 V?
No
Check the path to the microcomputer.
Yes
IC101 (Pin 121)
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
Is the voltage of D1RST3 maintained in 3.3V? (Does it fall to become 0V periodically?)
No
It is likely a Boot Error.
(It is very difficult to diagnose which peripheral part of the DSP is in failure.)

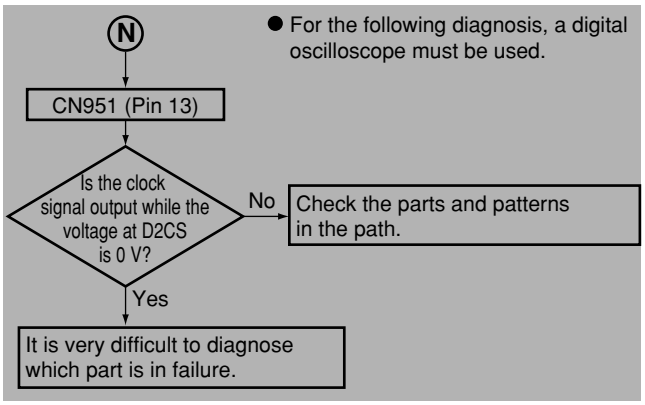

IC101 (Pin 15)
DIREQ3
Does the voltage become 3.3 V for a moment when the input stream is changed?
No
The 1st DSP or the communication path is in failure.
Yes
CN951 (Pin 21)
Does the voltage become 3.3 V for a moment when the input stream is changed?
No
Check the parts and patterns in the path.
Yes
CN951 (Pin 22)
D1CS3
Does the voltage become 0 V for a moment when the input stream is changed?
No
Check the path to the microcomputer.
Yes
IC101(Pin 122)
Does the voltage become 0 V for a moment when the input stream is changed?
No
Check the parts and patterns in the path.
Yes
● For the following diagnosis, a digital oscilloscope must be used.
CN951 (Pin 12)
DSCLK3
Is the clock signal output while the voltage at DICS3 is 0 V?
No
Check the path to the microcomputer.
Yes
IC101 (Pin 125)
Is the clock signal output while the voltage at DICS3 is 0 V?
No
Check the parts and patterns in the path.
Yes
M


M
● For the following diagnosis, a digital oscilloscope must be used.
CN951 (Pin 14)
DSDI3
Is the clock signal output while the voltage at DICS3 is 0 V?
No
Check the path to the microcomputer.
Yes
IC101 (Pin 127)
Is the clock signal output while the voltage at DICS3 is 0 V?
No
Check the parts and patterns in the path.
Yes
IC101 (Pin 126)
DSDO3
Is the clock signal output while the voltage at DICS3 is 0 V?
No
The 1st DSP or the communication path is in failure.
Yes
CN951 (Pin 13)
Is the clock signal output while the voltage at DICS3 is 0 V?
No
Check the parts and patterns in the path.
Yes
It is very difficult to diagnose which part is in failure.

Step 9: 2nd DSP


CN951 (Pin 11)
D2RST
Is the voltage 3.3 V?
No
Check the path to the microcomputer.
Yes
IC201 (Pin 47)
Is the voltage 3.3 V?
No
Check the parts and patterns in the path.
Yes
Is the voltage of D2RST maintained in 3.3V? (Does it fall to become 0V periodically?)
No
The 2nd DSP or the communication path is in failure.

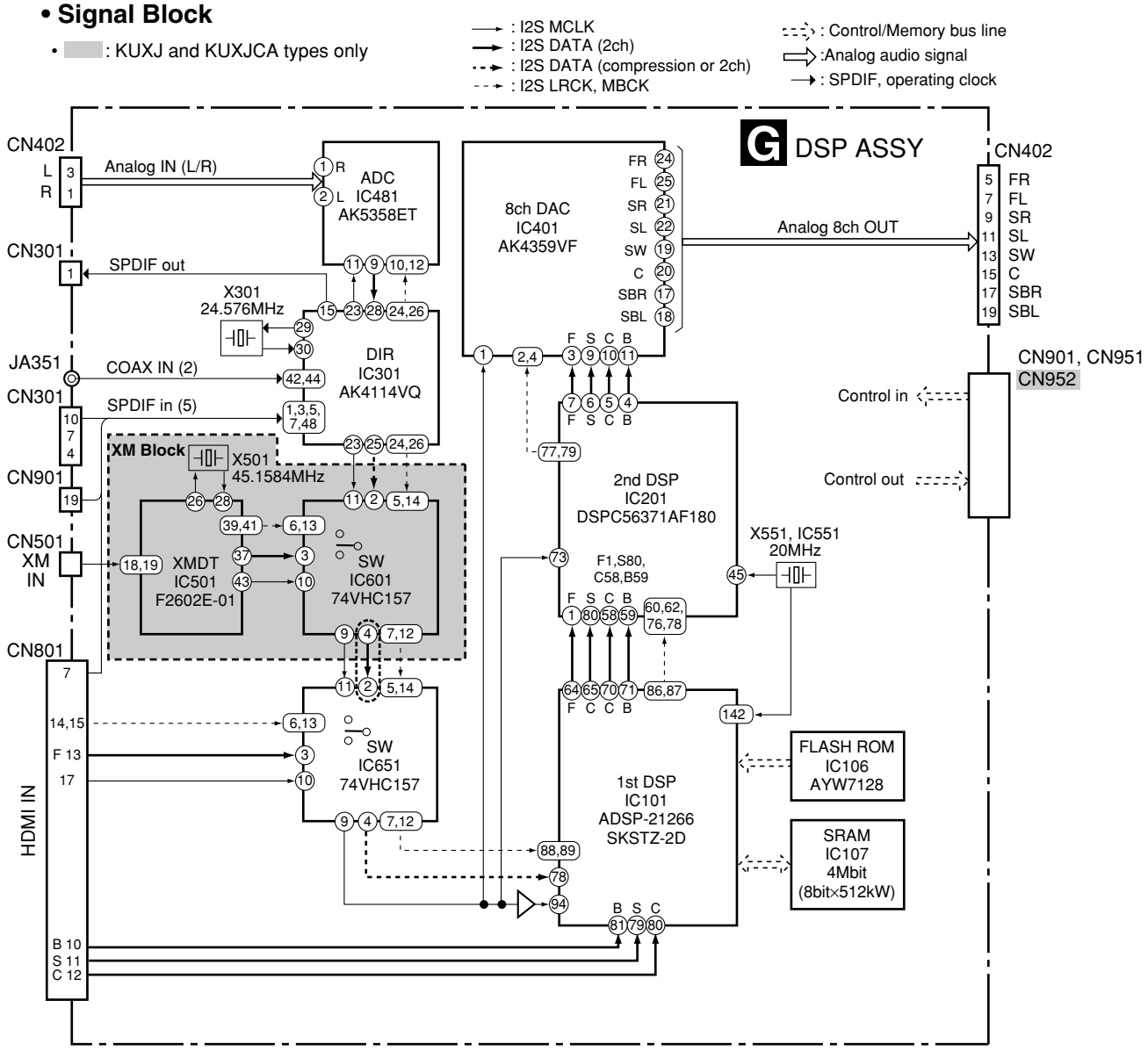

● For the following diagnosis, a digital oscilloscope must be used.
CN951 (Pin 10)
D2CS
Does the logic of D2CS periodically become 3.3 V or 0 V?
No
Check the path to the microcomputer.
Yes
IC201 (Pin 37)
Does the logic of D2CS periodically become 3.3 V or 0 V?
No
Check the parts and patterns in the path.
Yes
CN951 (Pin 12)
DSCLK3
Is the clock signal output while the voltage at D2CS is 0 V?
No
Check the path to the microcomputer.
Yes
IC201 (Pin 36)
Is the clock signal output while the voltage at D2CS is 0 V?
No
Check the parts and patterns in the path.
Yes
CN951 (Pin 14)
DSDI3
Is the clock signal output while the voltage at D2CS is 0 V?
No
Check the path to the microcomputer.
Yes
IC201 (Pin 34)
Is the clock signal output while the voltage at D2CS is 0 V?
No
Check the parts and patterns in the path.
Yes
IC201 (Pin 35)
DSDO3
Is the clock signal output while the voltage at D2CS is 0 V?
No
The 2nd DSP or the communication path is in failure.
Yes
N


N
● For the following diagnosis, a digital oscilloscope must be used.
CN951 (Pin 13)
Is the clock signal output while the voltage at D2CS is 0 V?
No
Check the parts and patterns in the path.
Yes
It is very difficult to diagnose which part is in failure.

■ DSP Block Diagram

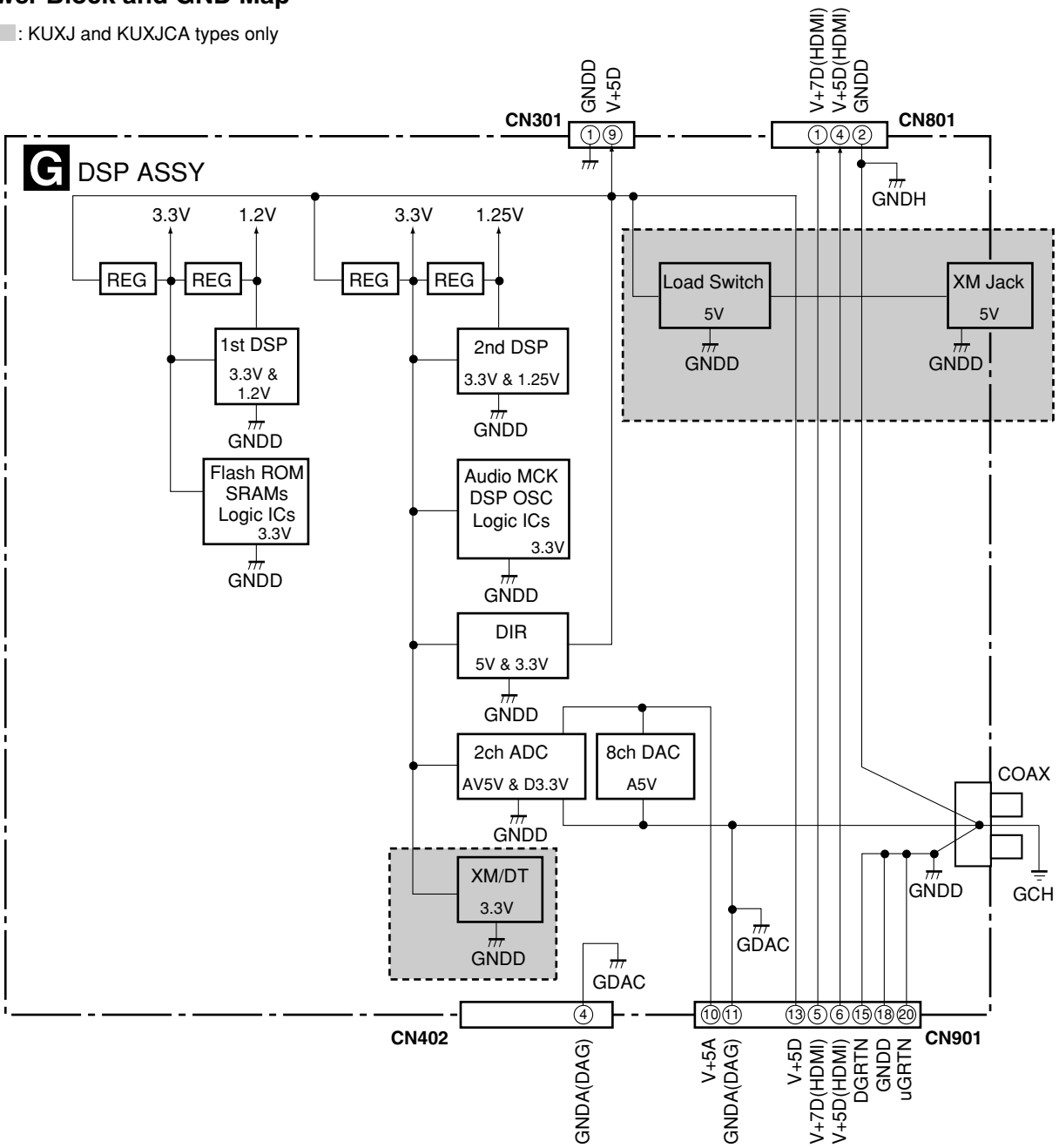
• Signal Block

• : KUXJ and KUXJCA types only



• Power Block and GND Map

• : KUXJ and KUXJCA types only



7.1.4 HDMI TROUBLESHOOTING

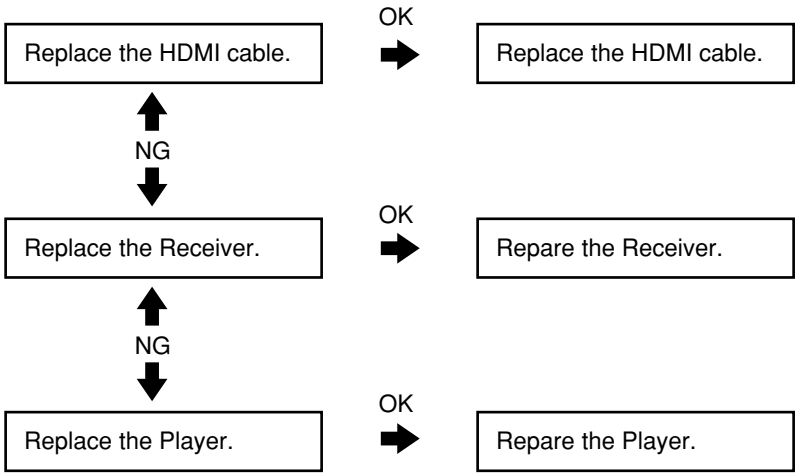
■ HDMI Simple Diagnosis

Please refer to the one point trouble shooting first before checking the flow chart on the next page.

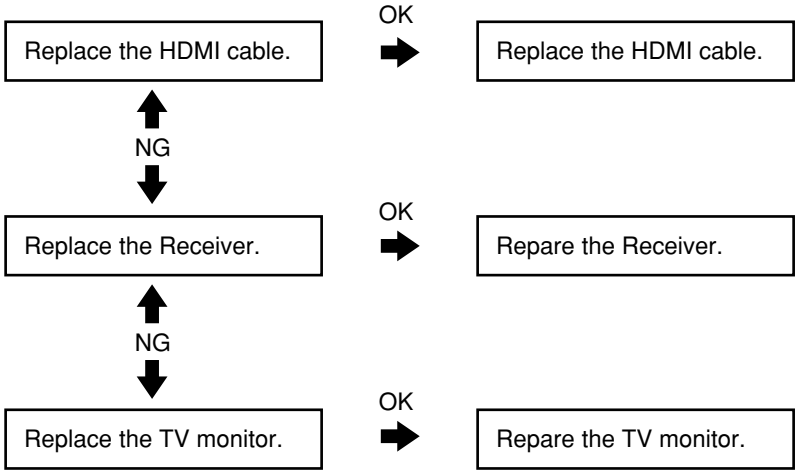
HDMI

Symptom	Remedy
The HDMI indicator blinks continuously.	Check all the points below.
No picture or sound.	• This receiver is HDCP-compatible. Check that the components you are connecting are also HDCP-compatible. If they are not, please connect them using the component, S-video or composite video jacks. • Depending on the connected source component, itís possible that it will not work with this receiver (even if it is HDCP-compatible). In this case, connect using the component, S-video or composite video jacks between source and receiver. • If the problem still persists when connecting your HDMI component directly to your monitor, please consult the component or monitor manual or contact the manufacturer for support.
No picture.	• To see the on-screen display, you must also connect the receiver and TV with a composite, component, or S-video cable. • Depending in the output settings of the source component, it may be outputting a video format that can't be displayed. Change the output settings of the source, or connect using the component, S-video or composite jacks.
No sound, or sound suddenly ceases.	• Check that the HDMI AV setting is set to **AMP/THROUGH**. • If the component is a DVI device, use a separate connection for the audio. • Check the audio output settings of the source component.
Noisy or distorted picture.	• If the problem still persists when connecting your HDMI component directly to your monitor, please consult the component or monitor manual or contact the manufacturer for support.

1. Causes for noncompletion of HDMI authentication between the source equipment and this unit (the HDMI indicator is unlit or flashes)



2. Causes for noncompletion of HDMI authentication between the monitor and this unit (no display or sound from the monitor)



■ HDMI Troubleshooting

• The parts marked like **V+5** in the following chart are located in "HDMI &DVC Assy Check Points".

Common section

Step 1-1: Connections

CN1001, CN1002

Are BtoB connectors inserted securely? — No → Insert it securely.

Yes

Step 1-2: Power supply

V+5 — 5 V — **V+5**

Is the voltage 5 V? — No → Check the DSP Assy or AUDIO IN Assy or DC/DC Assy.

Yes

IC901 (Pin 3) — 3.3 V — **V+3R3**

Is the voltage 3.3 V? — No → Check the patterns in the path and IC901. If IC901 is failure, replace IC901.

Yes

V+3R3UC — 3.3 V (HDMI UCOM) — **V+3R3UC**

Is the voltage 3.3 V? — No → Check the patterns in the path and L501. If L501 is failure, replace L501.

Yes

Step 1-3: Reset

CN1001 (Pin 2) — HDRST — **O**

Is the voltage "H" (3.3 V)? — No → Check the parts and patterns in the path. Check the DSP Assy or AUDIO IN Assy or MAIN CONTROL Assy.

Yes

X'TAL

IC501 (Pin 13) — XOUT — **U**

Is there a 15.7 MHz output? — No → Check the X501 and IC501. If X501 or IC501 is failure, replace X501 or IC501.

Yes

To Step 2-1: HDMI section
To Step 3-1: Video converter section

HDMI section

Step 2-1: Power supply

CN1001 (Pin 26) — 7 V — **V+7D**

Is the voltage 7 V? — No → Check the DSP Assy or AUDIO IN Assy or DC/DC Assy.

Yes

IC911 (Pin 5) — 5 V (HDMI OUT) — **V+5HD**

Is the voltage 5 V? — No → Check the IC911. If IC911 is failure, replace IC911.

Yes

V+5D — 5 V — **V+5D**

Is the voltage 5 V? — No → Check the R1002. If R1002 is failure, replace R1002.

Yes

V+5E0 — 5 V (HDMI IN1) — **V+5E0**

Is the voltage 4.4 V? — No → Check the D151. If D151 is failure, replace D151.

Yes

V+5E1 — 5 V (HDMI IN2) — **V+5E1**

Is the voltage 4.4 V? — No → Check the D171. If D171 is failure, replace D171.

Yes

V+3RX — 3.3 V (HDMI Rx) — **V+3RX**

Is the voltage 3.3 V? — No → Check the L103. If L103 is failure, replace L103.

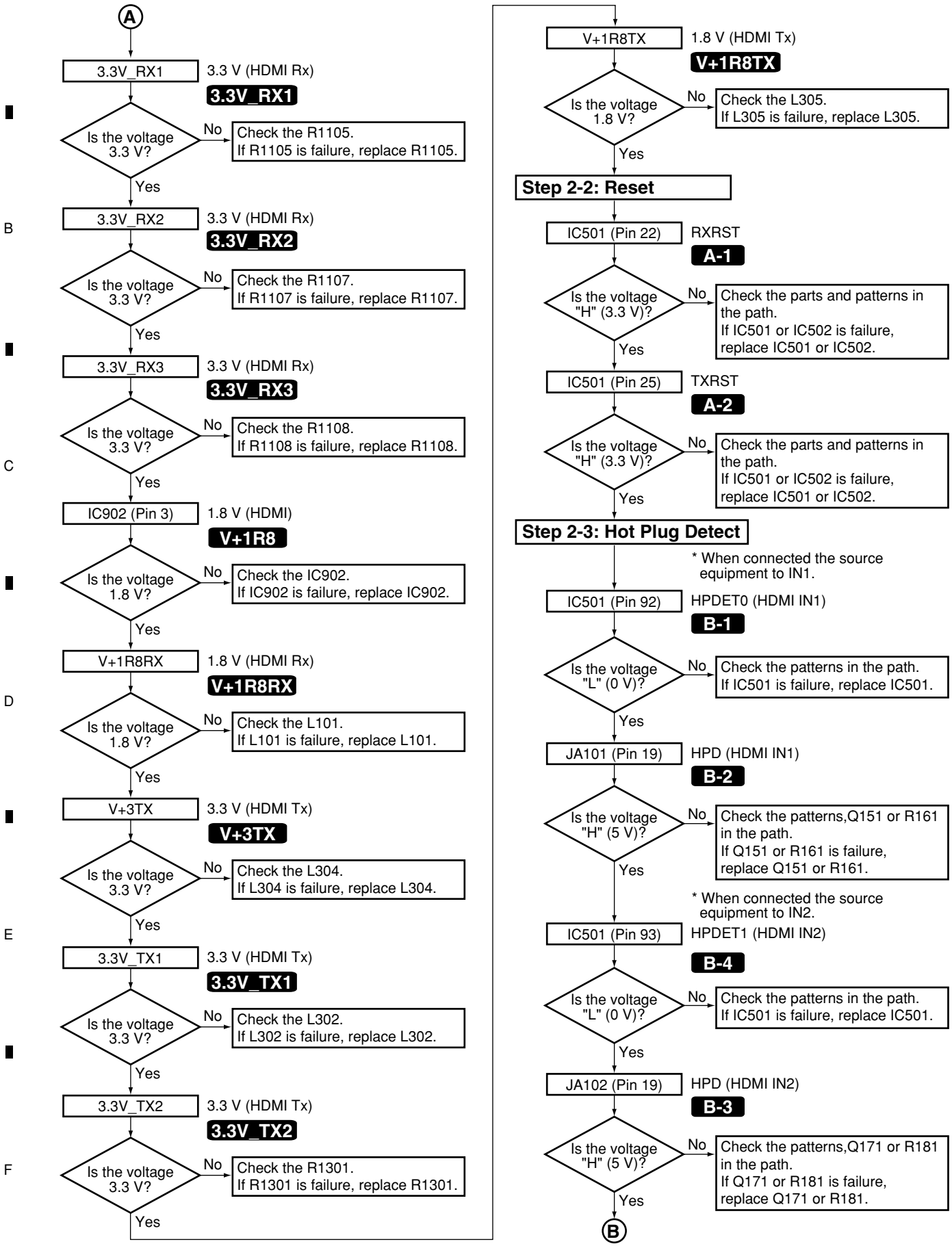
Yes

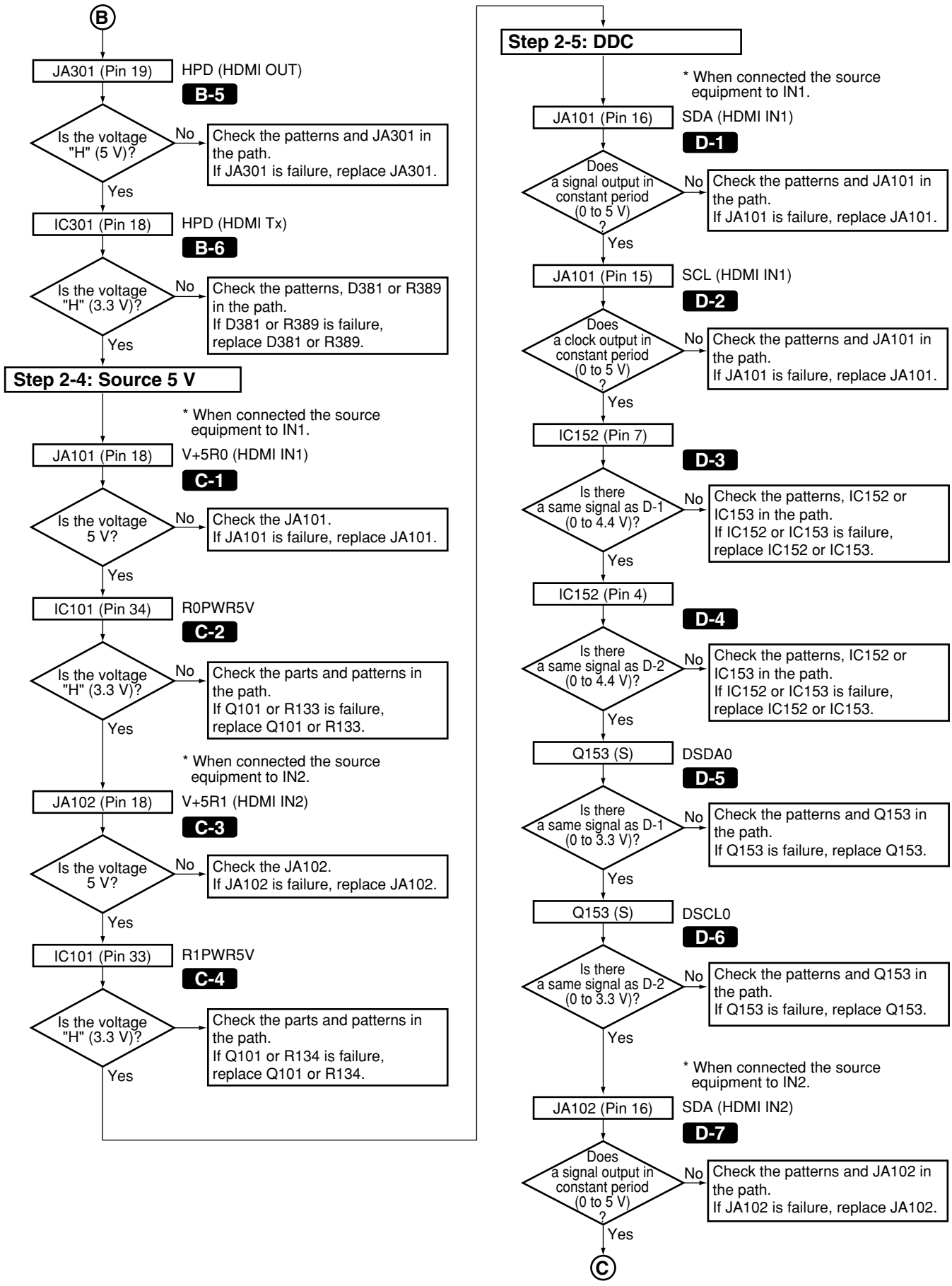
V+3RA — 3.3 V (HDMI RA) — **V+3RA**

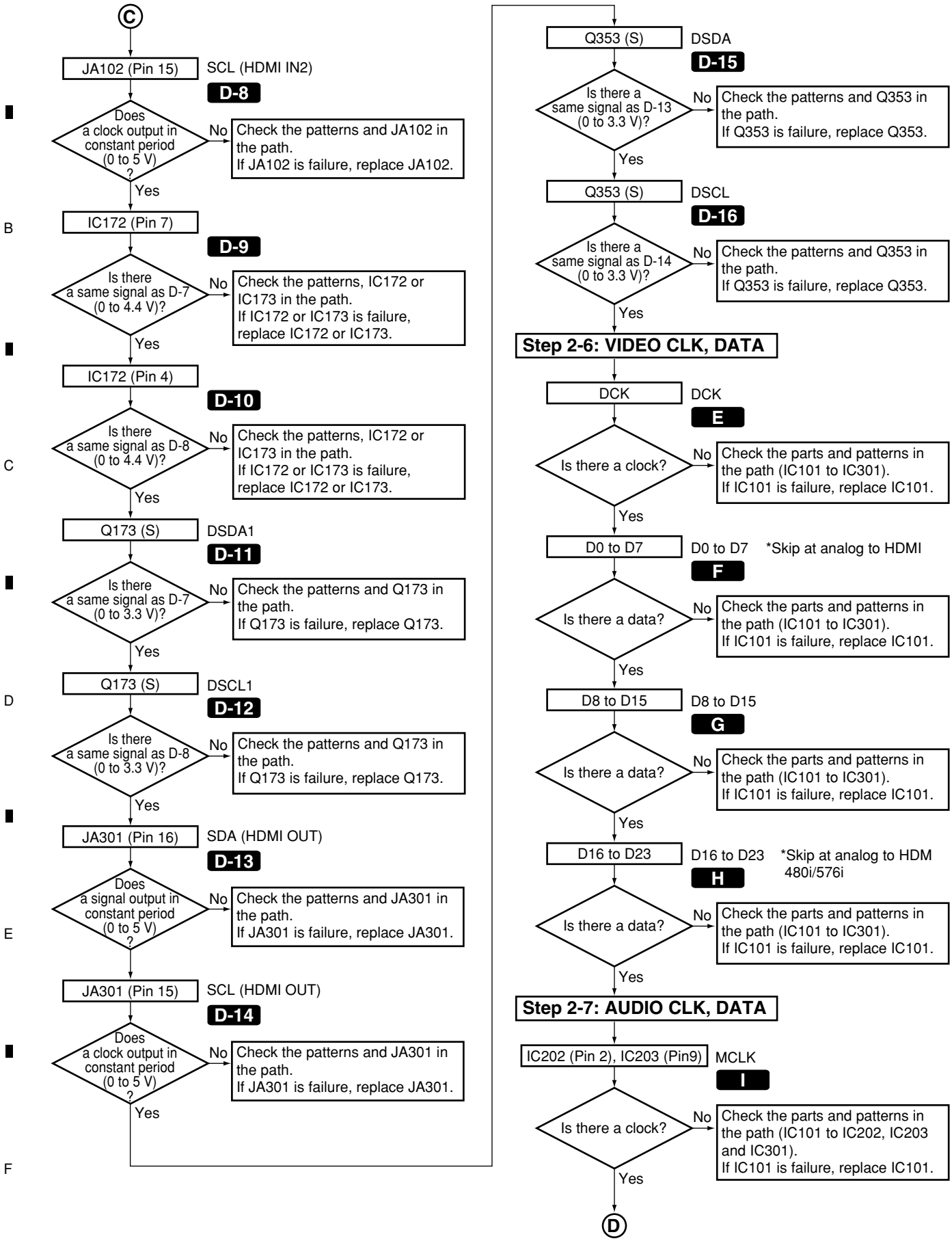
Is the voltage 3.3 V? — No → Check the L104. If L104 is failure, replace L104.

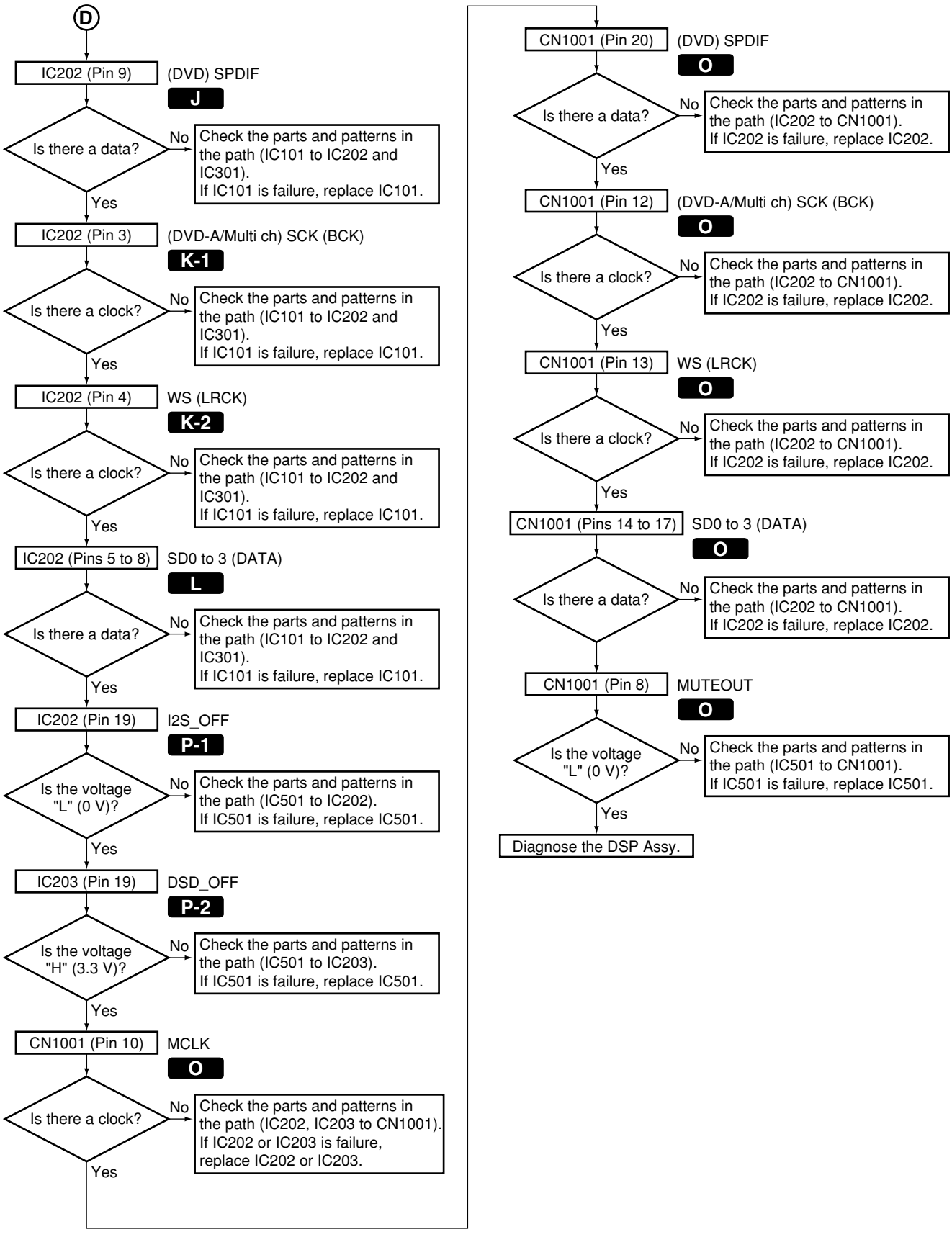
Yes

Ⓐ


A
3.3V_RX1
3.3 V (HDMI Rx)
3.3V_RX1
Is the voltage 3.3 V?
No
Check the R1105.
If R1105 is failure, replace R1105.
Yes
3.3V_RX2
3.3 V (HDMI Rx)
3.3V_RX2
Is the voltage 3.3 V?
No
Check the R1107.
If R1107 is failure, replace R1107.
Yes
3.3V_RX3
3.3 V (HDMI Rx)
3.3V_RX3
Is the voltage 3.3 V?
No
Check the R1108.
If R1108 is failure, replace R1108.
Yes
IC902 (Pin 3)
1.8 V (HDMI)
V+1R8
Is the voltage 1.8 V?
No
Check the IC902.
If IC902 is failure, replace IC902.
Yes
V+1R8RX
1.8 V (HDMI Rx)
V+1R8RX
Is the voltage 1.8 V?
No
Check the L101.
If L101 is failure, replace L101.
Yes
V+3TX
3.3 V (HDMI Tx)
V+3TX
Is the voltage 3.3 V?
No
Check the L304.
If L304 is failure, replace L304.
Yes
3.3V_TX1
3.3 V (HDMI Tx)
3.3V_TX1
Is the voltage 3.3 V?
No
Check the L302.
If L302 is failure, replace L302.
Yes
3.3V_TX2
3.3 V (HDMI Tx)
3.3V_TX2
Is the voltage 3.3 V?
No
Check the R1301.
If R1301 is failure, replace R1301.
Yes
V+1R8TX
1.8 V (HDMI Tx)
V+1R8TX
Is the voltage 1.8 V?
No
Check the L305.
If L305 is failure, replace L305.
Yes
Step 2-2: Reset
IC501 (Pin 22)
RXRST
A-1
Is the voltage "H" (3.3 V)?
No
Check the parts and patterns in the path.
If IC501 or IC502 is failure, replace IC501 or IC502.
Yes
IC501 (Pin 25)
TXRST
A-2
Is the voltage "H" (3.3 V)?
No
Check the parts and patterns in the path.
If IC501 or IC502 is failure, replace IC501 or IC502.
Yes
Step 2-3: Hot Plug Detect
* When connected the source equipment to IN1.
IC501 (Pin 92)
HPDET0 (HDMI IN1)
B-1
Is the voltage "L" (0 V)?
No
Check the patterns in the path.
If IC501 is failure, replace IC501.
Yes
JA101 (Pin 19)
HPD (HDMI IN1)
B-2
Is the voltage "H" (5 V)?
No
Check the patterns,Q151 or R161 in the path.
If Q151 or R161 is failure, replace Q151 or R161.
Yes
* When connected the source equipment to IN2.
IC501 (Pin 93)
HPDET1 (HDMI IN2)
B-4
Is the voltage "L" (0 V)?
No
Check the patterns in the path.
If IC501 is failure, replace IC501.
Yes
JA102 (Pin 19)
HPD (HDMI IN2)
B-3
Is the voltage "H" (5 V)?
No
Check the patterns,Q171 or R181 in the path.
If Q171 or R181 is failure, replace Q171 or R181.
Yes
B


B
JA301 (Pin 19)
HPD (HDMI OUT)
B-5
Is the voltage "H" (5 V)?
No
Check the patterns and JA301 in the path.
If JA301 is failure, replace JA301.
Yes
IC301 (Pin 18)
HPD (HDMI Tx)
B-6
Is the voltage "H" (3.3 V)?
No
Check the patterns, D381 or R389 in the path.
If D381 or R389 is failure, replace D381 or R389.
Yes
Step 2-4: Source 5 V
* When connected the source equipment to IN1.
JA101 (Pin 18)
V+5R0 (HDMI IN1)
C-1
Is the voltage 5 V?
No
Check the JA101.
If JA101 is failure, replace JA101.
Yes
IC101 (Pin 34)
R0PWR5V
C-2
Is the voltage "H" (3.3 V)?
No
Check the parts and patterns in the path.
If Q101 or R133 is failure, replace Q101 or R133.
Yes
* When connected the source equipment to IN2.
JA102 (Pin 18)
V+5R1 (HDMI IN2)
C-3
Is the voltage 5 V?
No
Check the JA102.
If JA102 is failure, replace JA102.
Yes
IC101 (Pin 33)
R1PWR5V
C-4
Is the voltage "H" (3.3 V)?
Check the parts and patterns in the path.
If Q101 or R134 is failure, replace Q101 or R134.
Yes
Step 2-5: DDC
* When connected the source equipment to IN1.
JA101 (Pin 16)
SDA (HDMI IN1)
D-1
Does a signal output in constant period (0 to 5 V) ?
No
Check the patterns and JA101 in the path.
If JA101 is failure, replace JA101.
Yes
JA101 (Pin 15)
SCL (HDMI IN1)
D-2
Does a clock output in constant period (0 to 5 V) ?
No
Check the patterns and JA101 in the path.
If JA101 is failure, replace JA101.
Yes
IC152 (Pin 7)
D-3
Is there a same signal as D-1 (0 to 4.4 V)?
No
Check the patterns, IC152 or IC153 in the path.
If IC152 or IC153 is failure, replace IC152 or IC153.
Yes
IC152 (Pin 4)
D-4
Is there a same signal as D-2 (0 to 4.4 V)?
No
Check the patterns, IC152 or IC153 in the path.
If IC152 or IC153 is failure, replace IC152 or IC153.
Yes
Q153 (S)
DSDA0
D-5
Is there a same signal as D-1 (0 to 3.3 V)?
No
Check the patterns and Q153 in the path.
If Q153 is failure, replace Q153.
Yes
Q153 (S)
DSCL0
D-6
Is there a same signal as D-2 (0 to 3.3 V)?
No
Check the patterns and Q153 in the path.
If Q153 is failure, replace Q153.
Yes
* When connected the source equipment to IN2.
JA102 (Pin 16)
SDA (HDMI IN2)
D-7
Does a signal output in constant period (0 to 5 V) ?
No
Check the patterns and JA102 in the path.
If JA102 is failure, replace JA102.
Yes
C


C
JA102 (Pin 15)
SCL (HDMI IN2)
D-8
Does a clock output in constant period (0 to 5 V) ?
No
Check the patterns and JA102 in the path.
If JA102 is failure, replace JA102.
Yes
IC172 (Pin 7)
D-9
Is there a same signal as D-7 (0 to 4.4 V)?
No
Check the patterns, IC172 or IC173 in the path.
If IC172 or IC173 is failure, replace IC172 or IC173.
Yes
IC172 (Pin 4)
D-10
Is there a same signal as D-8 (0 to 4.4 V)?
No
Check the patterns, IC172 or IC173 in the path.
If IC172 or IC173 is failure, replace IC172 or IC173.
Yes
Q173 (S)
DSDA1
D-11
Is there a same signal as D-7 (0 to 3.3 V)?
No
Check the patterns and Q173 in the path.
If Q173 is failure, replace Q173.
Yes
Q173 (S)
DSCL1
D-12
Is there a same signal as D-8 (0 to 3.3 V)?
No
Check the patterns and Q173 in the path.
If Q173 is failure, replace Q173.
Yes
JA301 (Pin 16)
SDA (HDMI OUT)
D-13
Does a signal output in constant period (0 to 5 V) ?
No
Check the patterns and JA301 in the path.
If JA301 is failure, replace JA301.
JA301 (Pin 15)
SCL (HDMI OUT)
D-14
Does a clock output in constant period (0 to 5 V) ?
No
Check the patterns and JA301 in the path.
If JA301 is failure, replace JA301.
Yes
Q353 (S)
DSDA
D-15
Is there a same signal as D-13 (0 to 3.3 V)?
No
Check the patterns and Q353 in the path.
If Q353 is failure, replace Q353.
Yes
Q353 (S)
DSCL
D-16
Is there a same signal as D-14 (0 to 3.3 V)?
No
Check the patterns and Q353 in the path.
If Q353 is failure, replace Q353.
Yes
Step 2-6: VIDEO CLK, DATA
DCK
DCK
E
Is there a clock?
No
Check the parts and patterns in the path (IC101 to IC301).
If IC101 is failure, replace IC101.
Yes
D0 to D7
D0 to D7 *Skip at analog to HDMI
F
Is there a data?
No
Check the parts and patterns in the path (IC101 to IC301).
If IC101 is failure, replace IC101.
Yes
D8 to D15
D8 to D15
G
Is there a data?
No
Check the parts and patterns in the path (IC101 to IC301).
If IC101 is failure, replace IC101.
Yes
D16 to D23
D16 to D23 *Skip at analog to HDM 480i/576i
H
Is there a data?
No
Check the parts and patterns in the path (IC101 to IC301).
If IC101 is failure, replace IC101.
Yes
Step 2-7: AUDIO CLK, DATA
IC202 (Pin 2), IC203 (Pin9)
MCLK
I
Is there a clock?
No
Check the parts and patterns in the path (IC101 to IC202, IC203 and IC301).
If IC101 is failure, replace IC101.
Yes
D


D
IC202 (Pin 9)
(DVD) SPDIF
J
Is there a data?
No
Check the parts and patterns in the path (IC101 to IC202 and IC301). If IC101 is failure, replace IC101.
Yes
IC202 (Pin 3)
(DVD-A/Multi ch) SCK (BCK)
K-1
Is there a clock?
No
Check the parts and patterns in the path (IC101 to IC202 and IC301). If IC101 is failure, replace IC101.
Yes
IC202 (Pin 4)
WS (LRCK)
K-2
Is there a clock?
No
Check the parts and patterns in the path (IC101 to IC202 and IC301). If IC101 is failure, replace IC101.
Yes
IC202 (Pins 5 to 8)
SD0 to 3 (DATA)
L
Is there a data?
No
Check the parts and patterns in the path (IC101 to IC202 and IC301). If IC101 is failure, replace IC101.
Yes
IC202 (Pin 19)
I2S_OFF
P-1
Is the voltage "L" (0 V)?
No
Check the parts and patterns in the path (IC501 to IC202). If IC501 is failure, replace IC501.
Yes
IC203 (Pin 19)
DSD_OFF
P-2
Is the voltage "H" (3.3 V)?
No
Check the parts and patterns in the path (IC501 to IC203). If IC501 is failure, replace IC501.
Yes
CN1001 (Pin 10)
MCLK
O
Is there a clock?
No
Check the parts and patterns in the path (IC202, IC203 to CN1001). If IC202 or IC203 is failure, replace IC202 or IC203.
Yes
CN1001 (Pin 20)
(DVD) SPDIF
O
Is there a data?
No
Check the parts and patterns in the path (IC202 to CN1001). If IC202 is failure, replace IC202.
Yes
CN1001 (Pin 12)
(DVD-A/Multi ch) SCK (BCK)
O
Is there a clock?
No
Check the parts and patterns in the path (IC202 to CN1001). If IC202 is failure, replace IC202.
Yes
CN1001 (Pin 13)
WS (LRCK)
O
Is there a clock?
No
Check the parts and patterns in the path (IC202 to CN1001). If IC202 is failure, replace IC202.
Yes
CN1001 (Pins 14 to 17)
SD0 to 3 (DATA)
O
Is there a data?
No
Check the parts and patterns in the path (IC202 to CN1001). If IC202 is failure, replace IC202.
CN1001 (Pin 8)
MUTEOUT
O
Is the voltage "L" (0 V)?
No
Check the parts and patterns in the path (IC501 to CN1001). If IC501 is failure, replace IC501.
Yes
Diagnose the DSP Assy.

Video converter section

Step 3-1: Power Supply

V+5A — 5 V (VIDEO BUFFER) — **V+5A**

Is the voltage 5 V? — No: Check the patterns in the path and R1001. If R1001 is failure, replace R1001.

Yes

IC903 (Pin 3) — 3.3 V — **V+3R3VC**

Is the voltage 3.3 V? — No: Check the patterns in the path and R902 and IC903. If R902 or IC903 is failure, replace R902 or IC903.

Yes

V+3DE — 3.3 V (VIDEO DEC) — **V+3DE**

Is the voltage 3.3 V? — No: Check the patterns in the path and L401. If L401 is failure, replace L401.

Yes

3.3V_DE1 — 3.3 V (VIDEO DEC) — **3.3V_DE1**

Is the voltage 3.3 V? — No: Check the patterns in the path and L404. If L404 is failure, replace L404.

Yes

3.3V_EN1 — 3.3 V (VIDEO DEC) — **3.3V_EN1**

Is the voltage 3.3 V? — No: Check the patterns in the path and L701. If L701 is failure, replace L701.

Yes

3.3V_EN2 — 3.3 V (VIDEO ENC) — **3.3V_EN2**

Is the voltage 3.3 V? — No: Check the patterns in the path and L702. If L702 is failure, replace L702.

Yes

IC904 (Pin 1) — 1.8 V (VIDEO DEC) — **V+1R8VC**

Is the voltage 1.8 V? — No: Check the patterns in the path and D903 and IC904. If D903 or IC904 is failure, replace D903 or IC904.

Yes

1.8V_DE1 — 1.8 V (VIDEO DEC) — **1.8V_DE1**

Is the voltage 1.8 V? — No: Check the patterns in the path and L402. If L402 is failure, replace L402.

Yes

1.8V_DE2 — 1.8 V (VIDEO DEC) — **1.8V_DE2**

Is the voltage 1.8 V? — No: Check the patterns in the path and L403. If L403 is failure, replace L403.

Yes

Step 3-2: Video Input

CN1002 (Pin 1) — CVBS IN — **a**

Is there a composite signal? — No: Diagnose the MAIN CONTROL Assy or COMPOSITE Assy.

Yes

CN1002 (Pin 5) — SY IN — **a**

Is there a Y signal? — No: Diagnose the MAIN CONTROL Assy or S-VIDEO Assy.

Yes

CN1002 (Pin 7) — SC IN — **a**

Is there a C signal? — No: Diagnose the MAIN CONTROL Assy or S-VIDEO Assy.

Yes

CN1002 (Pin 13) — Y IN — **a**

Is there a Y signal? — No: Diagnose the MAIN CONTROL Assy or COMPONENT Assy.

Yes

CN1002 (Pin 15) — Pb IN — **a**

Is there a Pb signal? — No: Diagnose the MAIN CONTROL Assy or COMPONENT Assy.

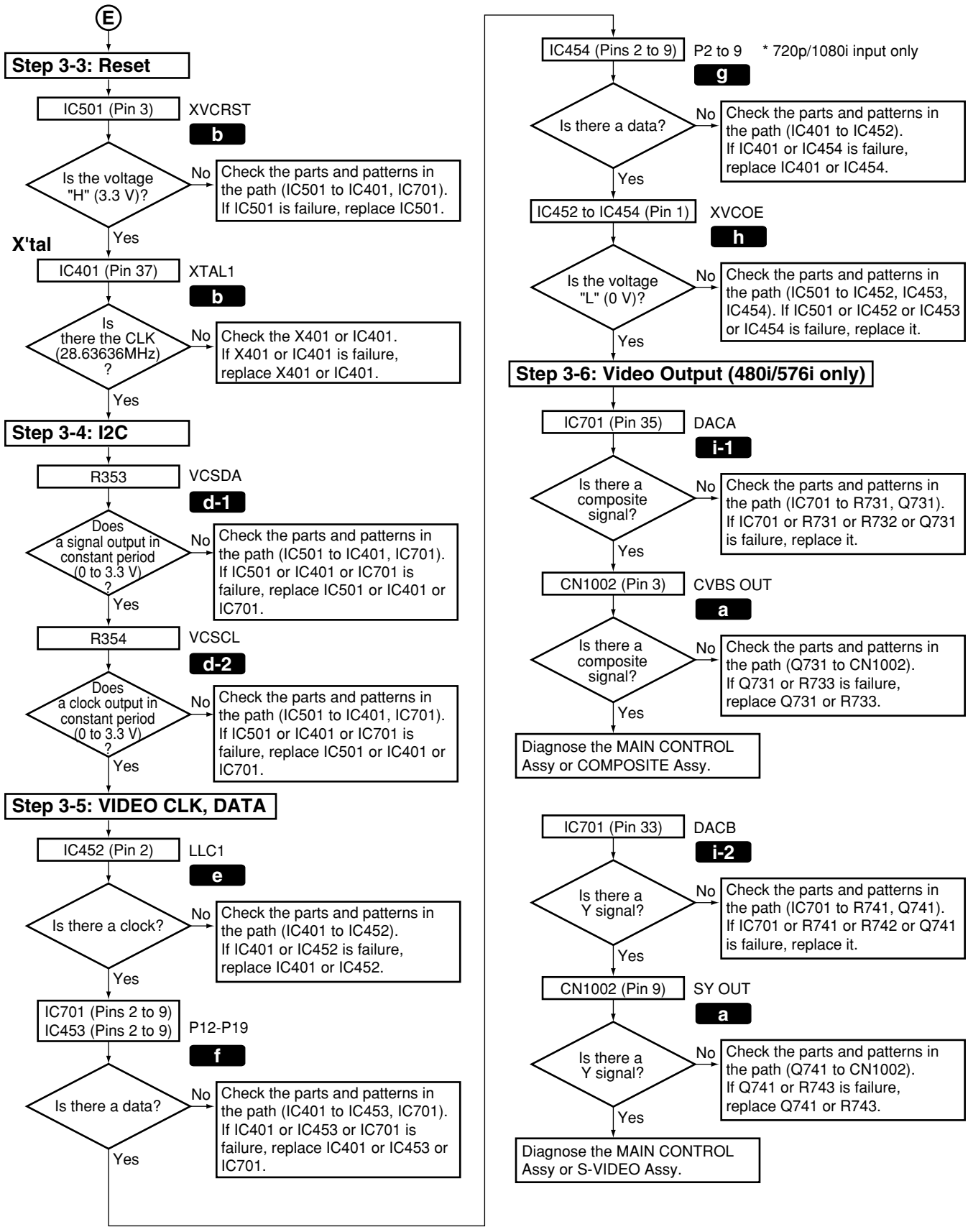
Yes

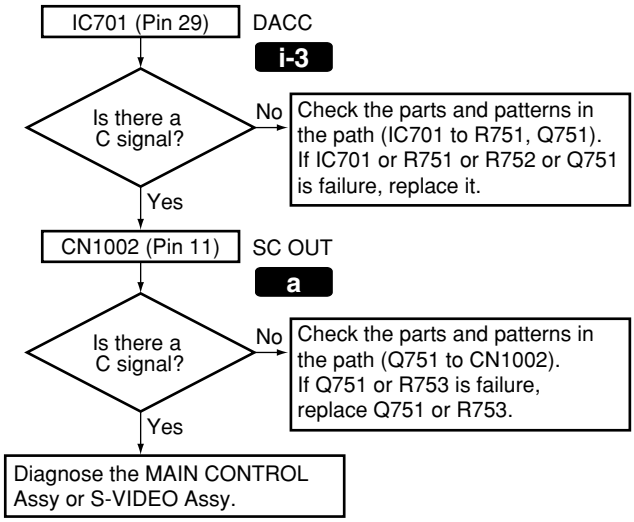
CN1002 (Pin 17) — Pr IN — **a**

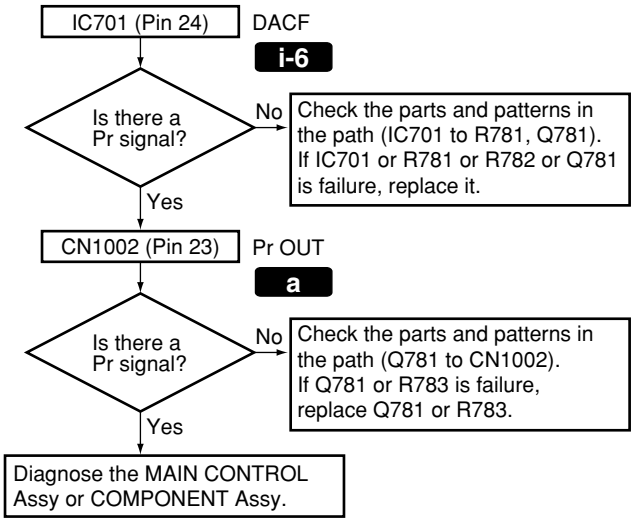
Is there a Pr signal? — No: Diagnose the MAIN CONTROL Assy or COMPONENT Assy.

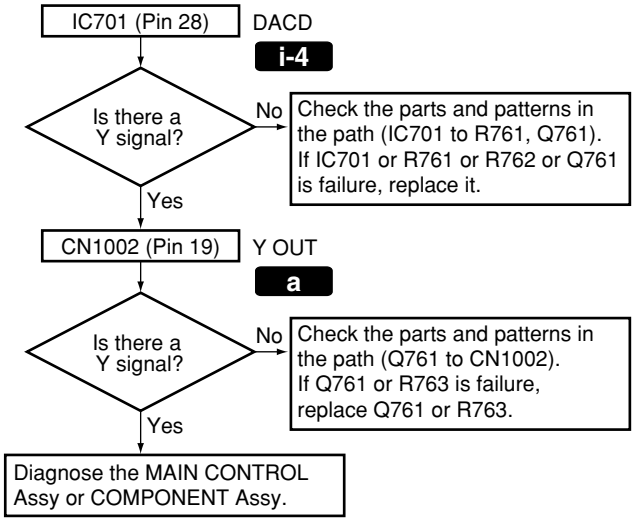
Yes

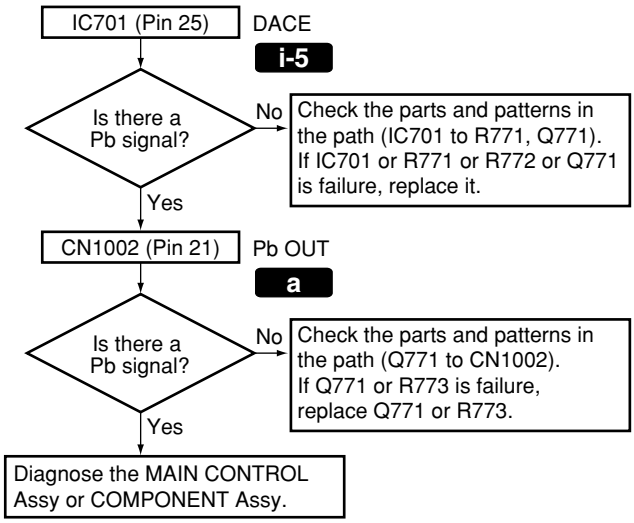
Ⓔ


E
Step 3-3: Reset
IC501 (Pin 3)
XVCRST
b
Is the voltage "H" (3.3 V)?
No
Check the parts and patterns in the path (IC501 to IC401, IC701). If IC501 is failure, replace IC501.
Yes
X'tal
IC401 (Pin 37)
XTAL1
b
Is there the CLK (28.63636MHz) ?
No
Check the X401 or IC401. If X401 or IC401 is failure, replace X401 or IC401.
Yes
Step 3-4: I2C
R353
VCSDA
d-1
Does a signal output in constant period (0 to 3.3 V) ?
No
Check the parts and patterns in the path (IC501 to IC401, IC701). If IC501 or IC401 or IC701 is failure, replace IC501 or IC401 or IC701.
Yes
R354
VCSCL
d-2
Does a clock output in constant period (0 to 3.3 V) ?
No
Check the parts and patterns in the path (IC501 to IC401, IC701). If IC501 or IC401 or IC701 is failure, replace IC501 or IC401 or IC701.
Yes
Step 3-5: VIDEO CLK, DATA
IC452 (Pin 2)
LLC1
e
Is there a clock?
No
Check the parts and patterns in the path (IC401 to IC452). If IC401 or IC452 is failure, replace IC401 or IC452.
Yes
IC701 (Pins 2 to 9) IC453 (Pins 2 to 9)
P12-P19
f
Is there a data?
No
Check the parts and patterns in the path (IC401 to IC453, IC701). If IC401 or IC453 or IC701 is failure, replace IC401 or IC453 or IC701.
Yes
IC454 (Pins 2 to 9)
P2 to 9
* 720p/1080i input only
g
Is there a data?
No
Check the parts and patterns in the path (IC401 to IC452). If IC401 or IC454 is failure, replace IC401 or IC454.
Yes
IC452 to IC454 (Pin 1)
XVCOE
h
Is the voltage "L" (0 V)?
No
Check the parts and patterns in the path (IC501 to IC452, IC453, IC454). If IC501 or IC452 or IC453 or IC454 is failure, replace it.
Yes
Step 3-6: Video Output (480i/576i only)
IC701 (Pin 35)
DACA
i-1
Is there a composite signal?
No
Check the parts and patterns in the path (IC701 to R731, Q731). If IC701 or R731 or R732 or Q731 is failure, replace it.
Yes
CN1002 (Pin 3)
CVBS OUT
a
Is there a composite signal?
No
Check the parts and patterns in the path (Q731 to CN1002). If Q731 or R733 is failure, replace Q731 or R733.
Yes
Diagnose the MAIN CONTROL Assy or COMPOSITE Assy.
IC701 (Pin 33)
DACB
i-2
Is there a Y signal?
No
Check the parts and patterns in the path (IC701 to R741, Q741). If IC701 or R741 or R742 or Q741 is failure, replace it.
Yes
CN1002 (Pin 9)
SY OUT
a
Is there a Y signal?
No
Check the parts and patterns in the path (Q741 to CN1002). If Q741 or R743 is failure, replace Q741 or R743.
Yes
Diagnose the MAIN CONTROL Assy or S-VIDEO Assy.


IC701 (Pin 29)
DACC
i-3
Is there a C signal?
No
Check the parts and patterns in the path (IC701 to R751, Q751). If IC701 or R751 or R752 or Q751 is failure, replace it.
Yes
CN1002 (Pin 11)
SC OUT
a
Is there a C signal?
No
Check the parts and patterns in the path (Q751 to CN1002). If Q751 or R753 is failure, replace Q751 or R753.
Yes
Diagnose the MAIN CONTROL Assy or S-VIDEO Assy.


IC701 (Pin 24)
DACF
i-6
Is there a Pr signal?
No
Check the parts and patterns in the path (IC701 to R781, Q781). If IC701 or R781 or R782 or Q781 is failure, replace it.
Yes
CN1002 (Pin 23)
Pr OUT
a
Is there a Pr signal?
No
Check the parts and patterns in the path (Q781 to CN1002). If Q781 or R783 is failure, replace Q781 or R783.
Yes
Diagnose the MAIN CONTROL Assy or COMPONENT Assy.

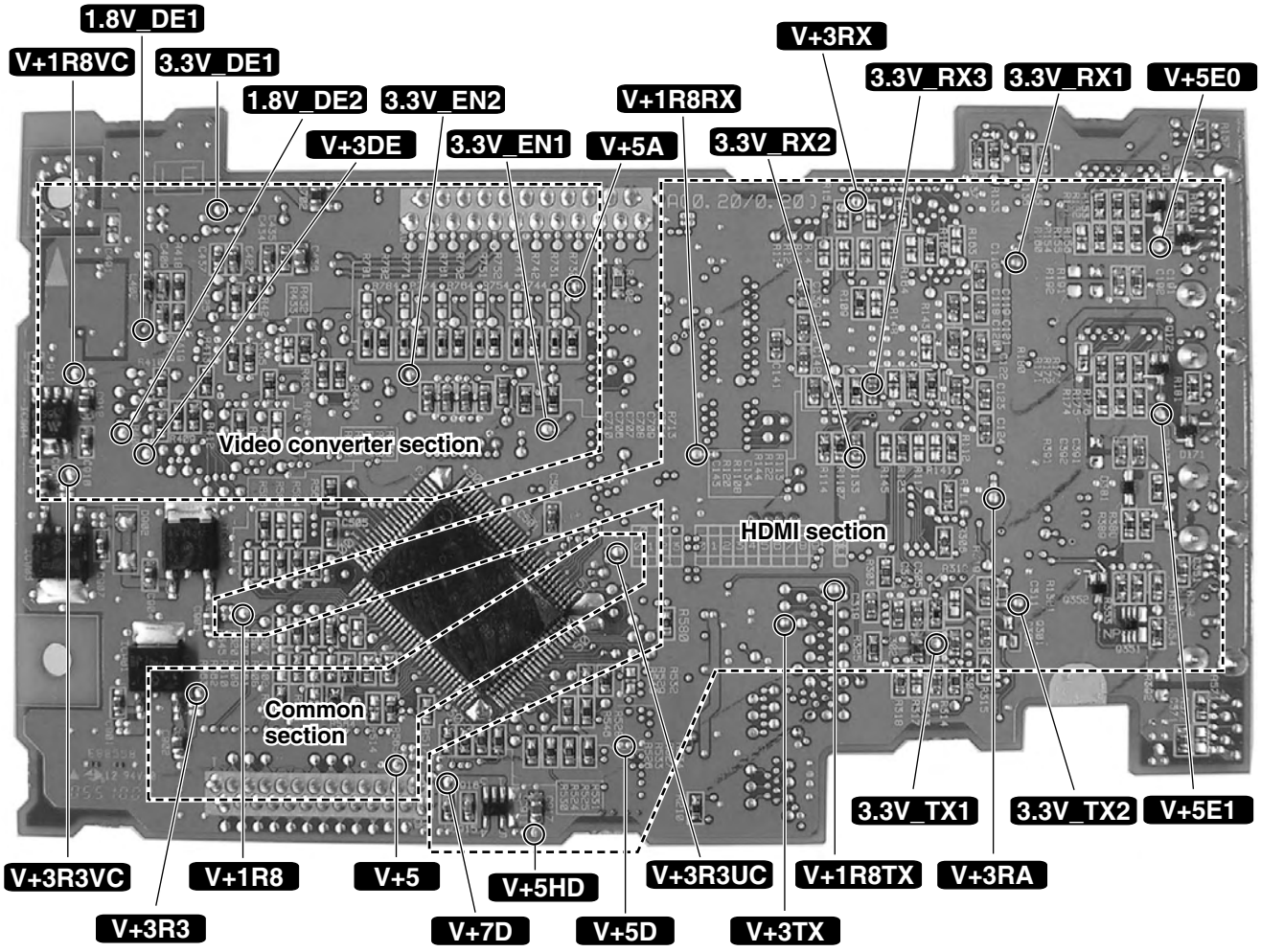

IC701 (Pin 28)
DACD
i-4
Is there a Y signal?
No
Check the parts and patterns in the path (IC701 to R761, Q761). If IC701 or R761 or R762 or Q761 is failure, replace it.
Yes
CN1002 (Pin 19)
Y OUT
a
Is there a Y signal?
No
Check the parts and patterns in the path (Q761 to CN1002). If Q761 or R763 is failure, replace Q761 or R763.
Yes
Diagnose the MAIN CONTROL Assy or COMPONENT Assy.


IC701 (Pin 25)
DACE
i-5
Is there a Pb signal?
No
Check the parts and patterns in the path (IC701 to R771, Q771). If IC701 or R771 or R772 or Q771 is failure, replace it.
Yes
CN1002 (Pin 21)
Pb OUT
a
Is there a Pb signal?
No
Check the parts and patterns in the path (Q771 to CN1002). If Q771 or R773 is failure, replace Q771 or R773.
Yes
Diagnose the MAIN CONTROL Assy or COMPONENT Assy.

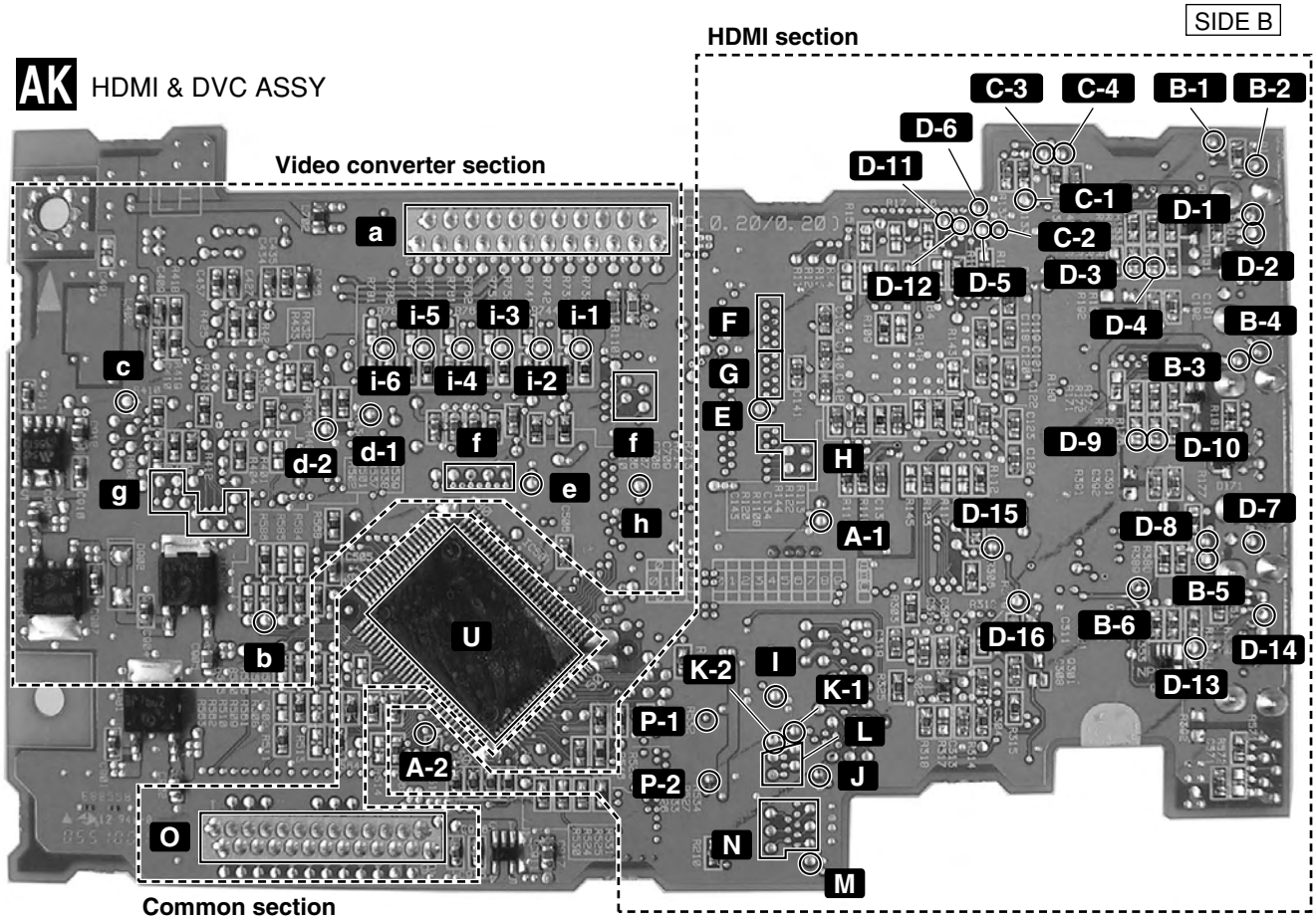
■ HDMI & DVC Assy Check Points (Power supply section)

AK HDMI & DVC ASSY

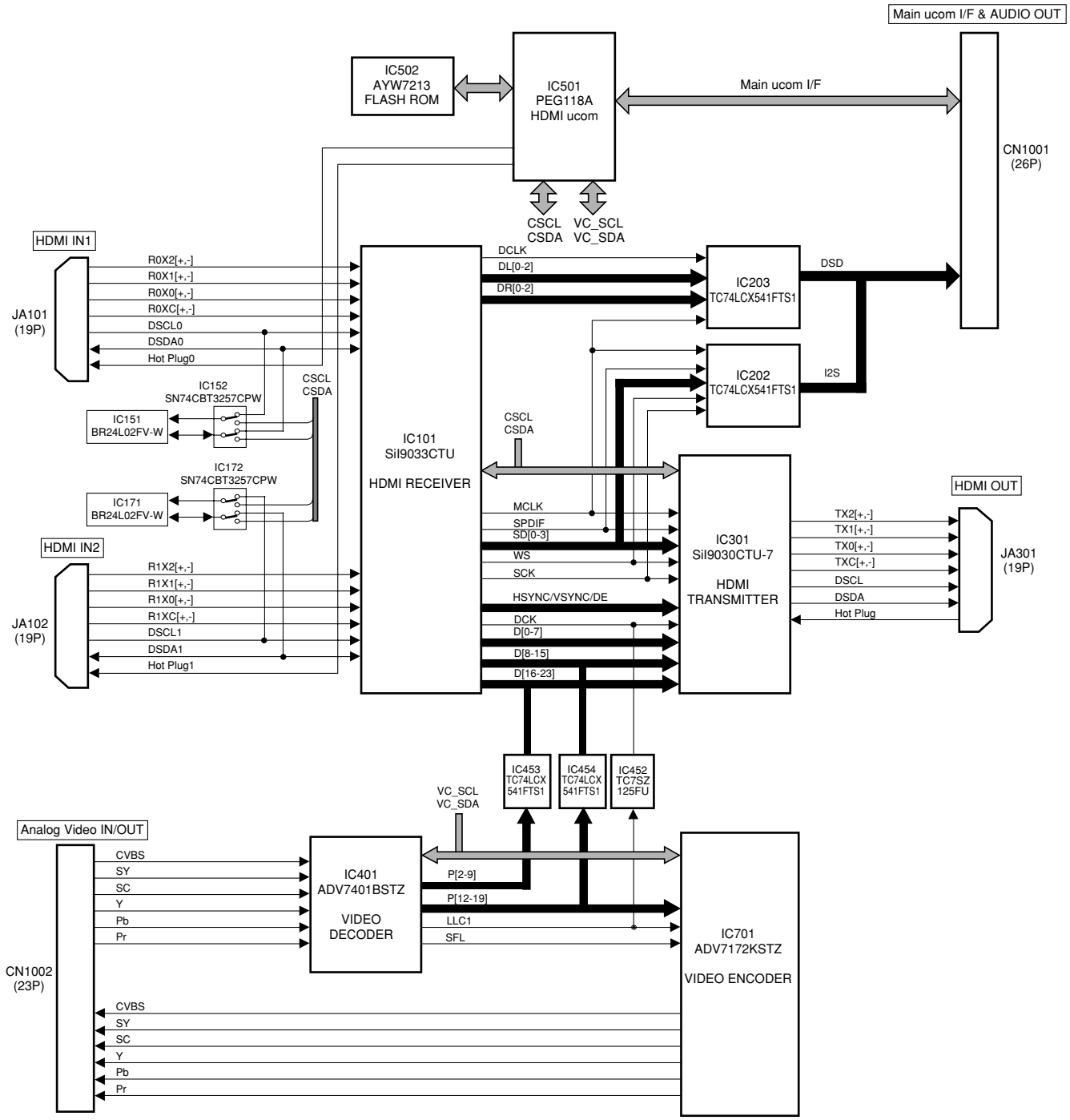
SIDE B



■ HDMI & DVC Assy Check Points (Signal section)



■ Block Diagram of the HDMI & DVC Assy



7.1.5 USB MODULE

■ Description of Error Indications

FL Display	Error Content	Possible causes and actions to be taken
USB ERROR1 USB ERR1	Detection of overcurrent to a USB device	Overcurrent (500 mA or more) is consumed at the connected USB device. • Some USB devices, such as a portable HDD, need more current than that this unit supplies. (Use the AC adaptor for the connected USB device.) • The USB power is short-circuited.
USB ERROR2 USB ERR2	Detection of a medium not supported	A USB device that this unit does not support (other than the Mass Storage Class) is connected (such as a mouse, printer, or digital camera). • Connect a mass storage class USB device.
USB ERROR3 USB ERR3	Communication error with the system microcomputer	Communication between TCC760HC01-AG (IC701) and PEG116A (IC101) failed. • Defective connection (connectors) inside this unit • See STEP 3 of Troubleshooting.

■ Operations when overcurrent to a USB device is detected

(1) Overcurrent to a USB device is detected at the port for the microcomputer.

(2) The power supply to the USB device is stopped.

(3) Control of 5 V power is disabled at the port for the microcomputer.

(4) Change of indications on the FL display

Flashes for 2 sec.

V3 Low usage `USB ERR1` In a case of an 8-digit FL display

⇩ Lights up after flashing for 2 sec.

`USB ERR1` In a case of an 8-digit FL display

(5) To supply power to the USB module again:

- Turn the power to the unit off then back on.
- Set the function setting to anything other than USB then back to USB.
- Press the USB play key on the remote control unit.

(6) After overcurrent is detected, if the USB play key is pressed while the error indication is displayed, power supply to the USB module is restored. If overcurrent is no longer detected, the indications shown below are displayed (normal indication):

`USB` In a case of an 8-digit FL display

In this state, flashing of "USB ERROR1" stops, but playback will not start. To start playback, press the USB play key again.

In the above case, if overcurrent is detected again, the above procedures 1 through 4 are repeated.

■ In a case where a medium not supported is connected

(1) Change of indications on the FL displays

Flashes for 2 sec.

`USB ERR2` In a case of an 8-digit FL display

⇩ Lights up after flashing for 2 sec.

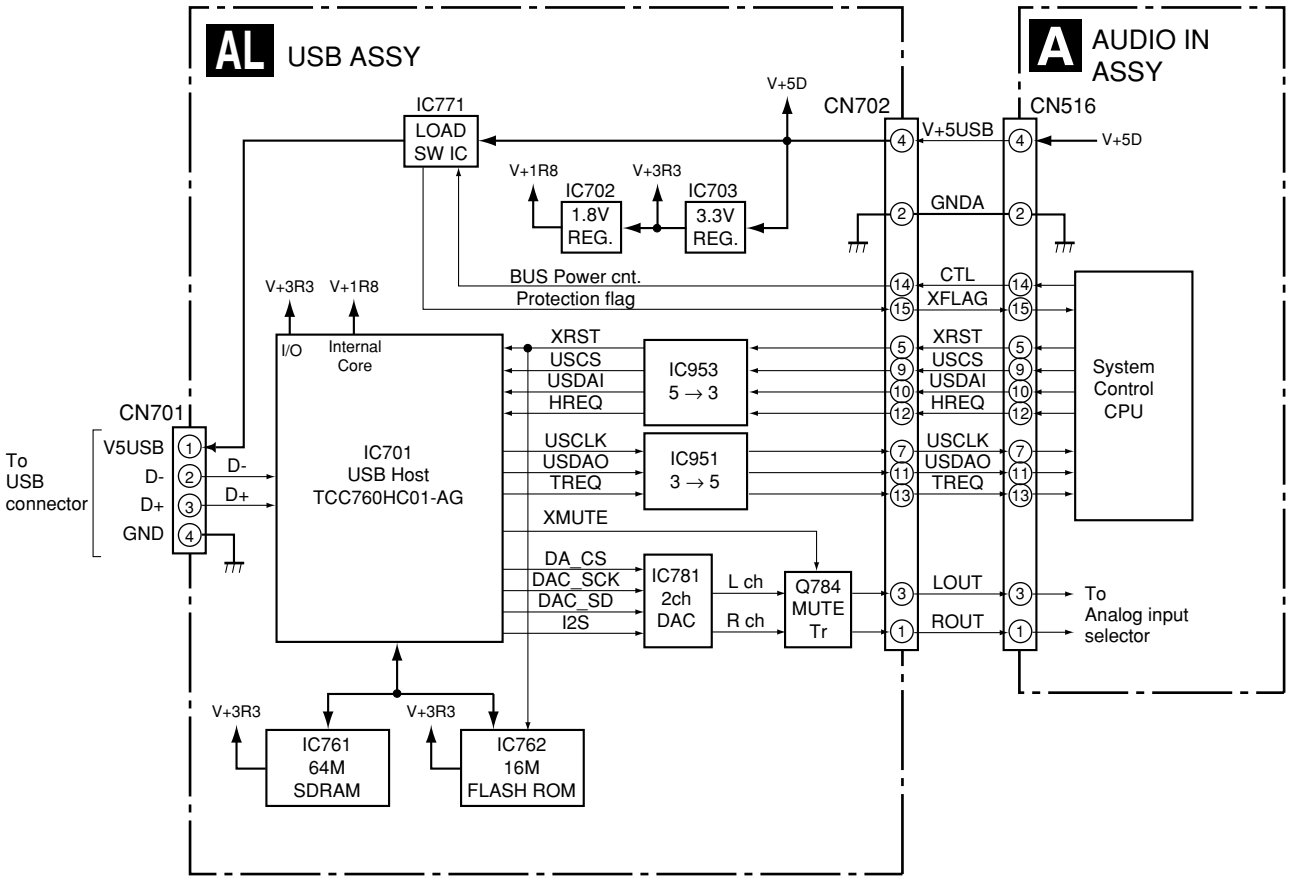
`USB ERR2` In a case of an 8-digit FL display

If overcurrent is detected before detection of a non-supported medium, the error indication "USB ERROR1" remains, as the power supply to the USB module is stopped.

On supported media

The formats of supported media that can be played back on this unit are MP3, WMA, and AAC.
Some media in MPEG4 can also be played back. As AAC derives from MPEG4 codec, playback of media in AAC codec of MPEG4 is possible.

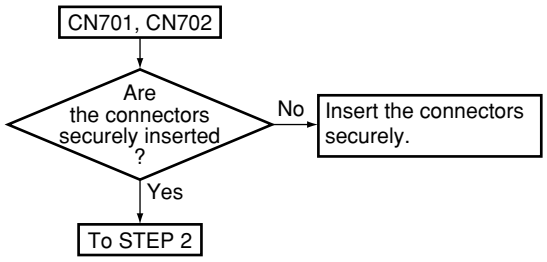
■ Block Diagram of the USB Assy



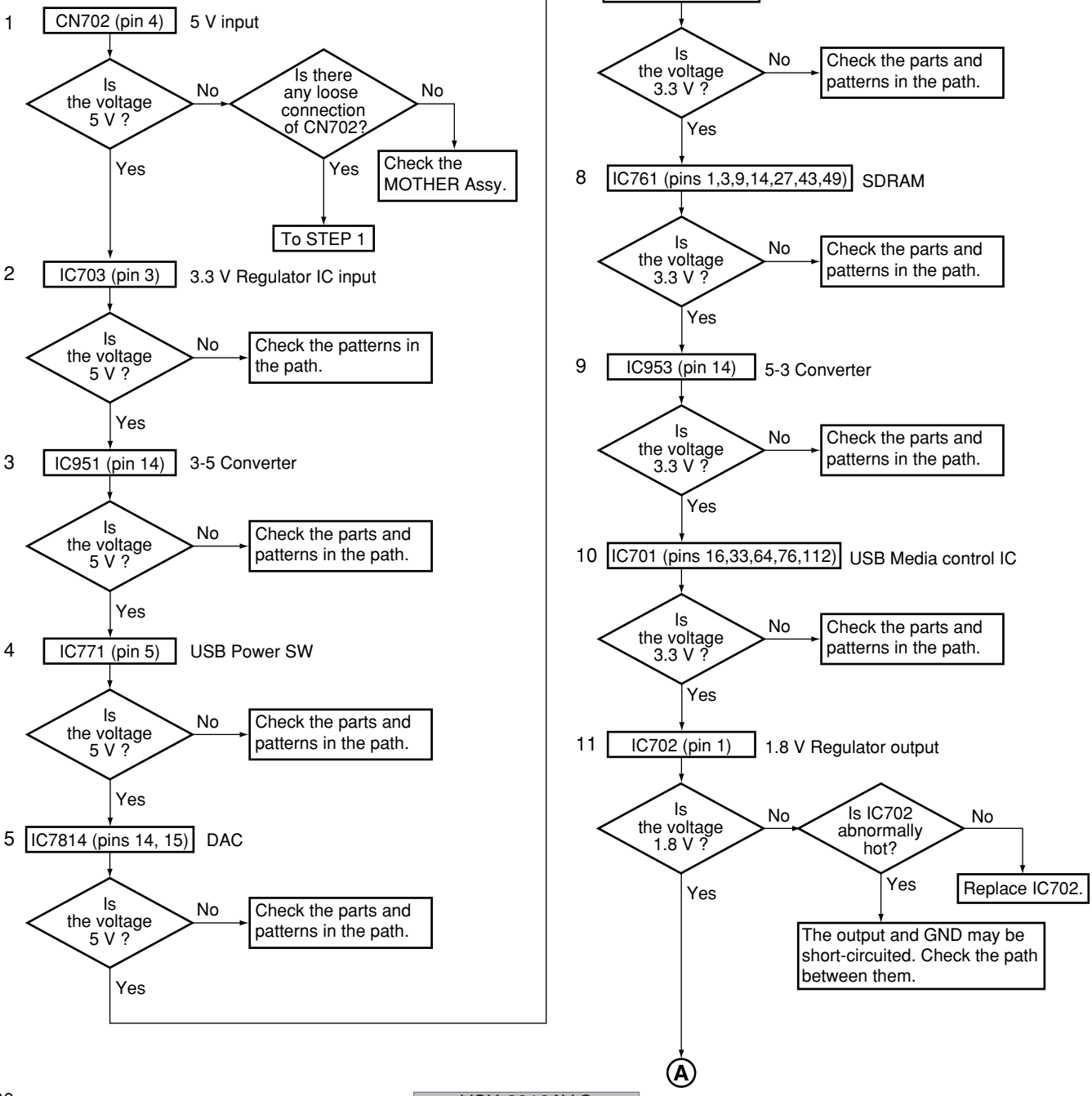
Main parts	Purpose
TCC760HC01-AG	: USB Host control decoder (MP3/WMA/MPEG-4AAC)
16M FLASH ROM	: Firmware is stored
64M SDRAM	: Temporary storage area of decoding music file
LOAD SWITCH	: Current limitation to USB device power
2ch DAC	: D/A converter for analog output

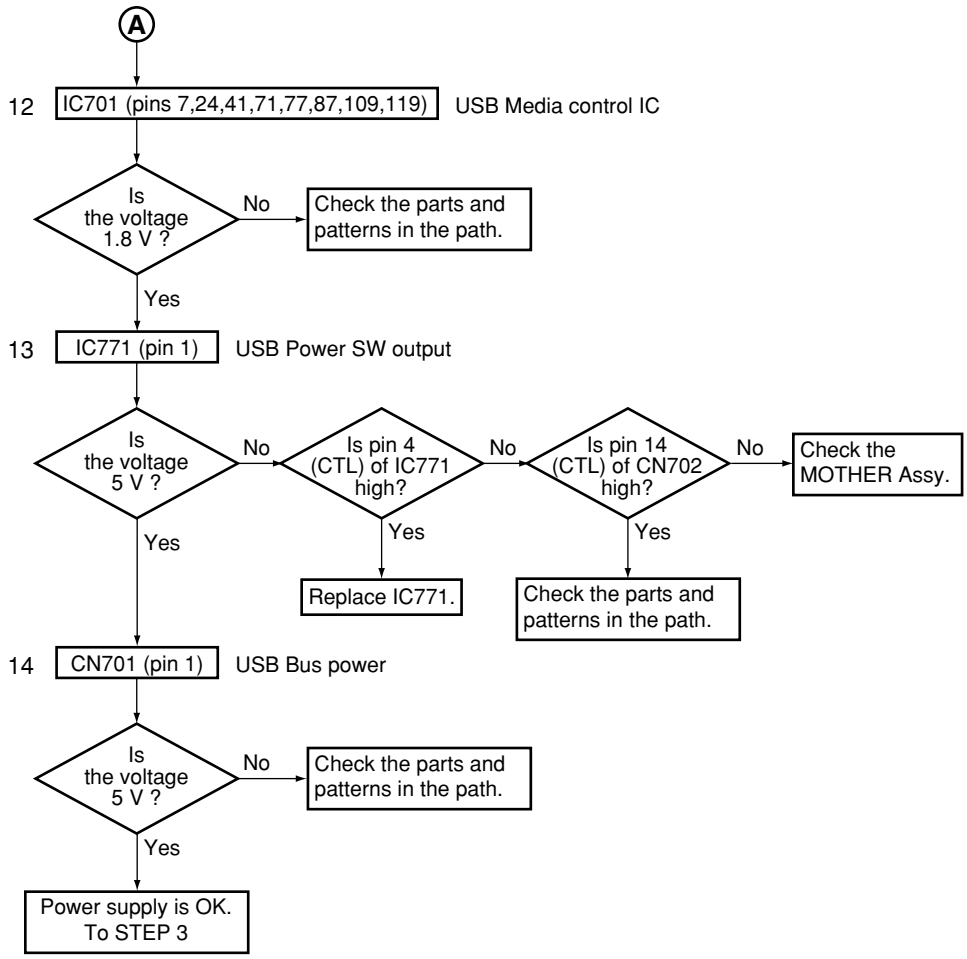
■ USB Troubleshooting

Step 1: Connectors



Step 2: Power supply


1 CN702 (pin 4) 5 V input
Is the voltage 5 V ?
No
Is there any loose connection of CN702?
No
Check the MOTHER Assy.
Yes
To STEP 1
Yes
2 IC703 (pin 3) 3.3 V Regulator IC input
Is the voltage 5 V ?
No
Check the patterns in the path.
Yes
3 IC951 (pin 14) 3-5 Converter
Is the voltage 5 V ?
No
Check the parts and patterns in the path.
Yes
4 IC771 (pin 5) USB Power SW
Is the voltage 5 V ?
No
Check the parts and patterns in the path.
Yes
5 IC7814 (pins 14, 15) DAC
Is the voltage 5 V ?
No
Check the parts and patterns in the path.
Yes
6 IC703 (pin 1), IC702 (pin 7) 3.3 V Reg. output / 1.8 V Reg. input
Is the voltage 3.3 V ?
No
Is IC703 abnormally hot?
No
Replace IC703.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
7 IC762 (pins 37, 47) FLASH ROM
Is the voltage 3.3 V ?
No
Check the parts and patterns in the path.
Yes
8 IC761 (pins 1,3,9,14,27,43,49) SDRAM
Is the voltage 3.3 V ?
No
Check the parts and patterns in the path.
Yes
9 IC953 (pin 14) 5-3 Converter
Is the voltage 3.3 V ?
No
Check the parts and patterns in the path.
Yes
10 IC701 (pins 16,33,64,76,112) USB Media control IC
Is the voltage 3.3 V ?
No
Check the parts and patterns in the path.
Yes
11 IC702 (pin 1) 1.8 V Regulator output
Is the voltage 1.8 V ?
No
Is IC702 abnormally hot?
No
Replace IC702.
Yes
The output and GND may be short-circuited. Check the path between them.
Yes
A



Step 3: Operation of USB Media control IC

Note: Please confirm it with the USB memory connected for the content.

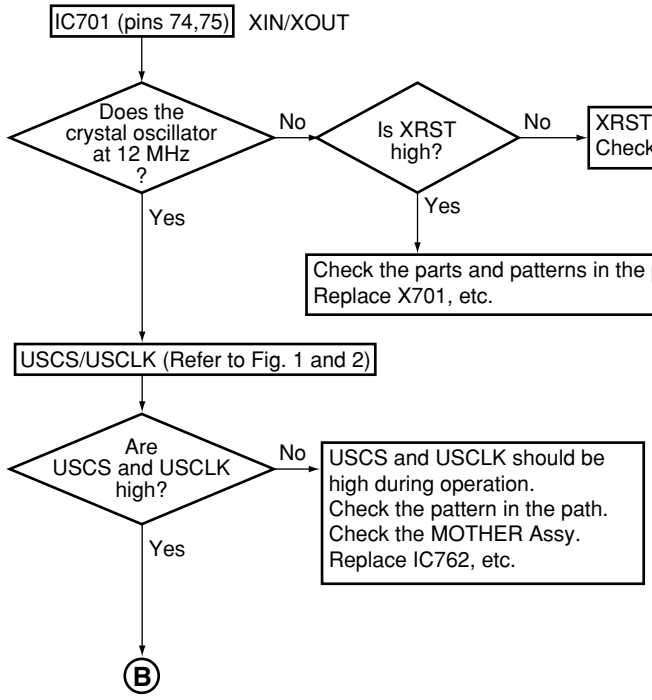

IC701 (pins 74,75)
XIN/XOUT
Does the crystal oscillator at 12 MHz ?
No
Is XRST high?
No
XRST must be high during operation. Check the MOTHER Assy.
Yes
Yes
Check the parts and patterns in the path. Replace X701, etc.
USCS/USCLK (Refer to Fig. 1 and 2)
Are USCS and USCLK high?
No
USCS and USCLK should be high during operation. Check the pattern in the path. Check the MOTHER Assy. Replace IC762, etc.
Yes
B

Fig. 1

	IC701	IC953 (5 V → 3 V)		CN702
XRST	pin 72	pin 3	pins 1,2	pin 5
USCS	pin 121	pin 11	pins 12,13	pin 9
HREQ	pin 122	pin 6	pins 4,5	pin 12
USDAI	pin 118	pin 8	pins 9,10	pin 10

Fig. 2

	IC701	IC951 (3 V → 5 V)		CN702
USCLK	pin 116	pins 4,5	pin 6	pin 7
USDAO	pin 115	pins 9,10	pin 8	pin 11
TREQ	pin 123	pins 12,13	pin 11	pin 13

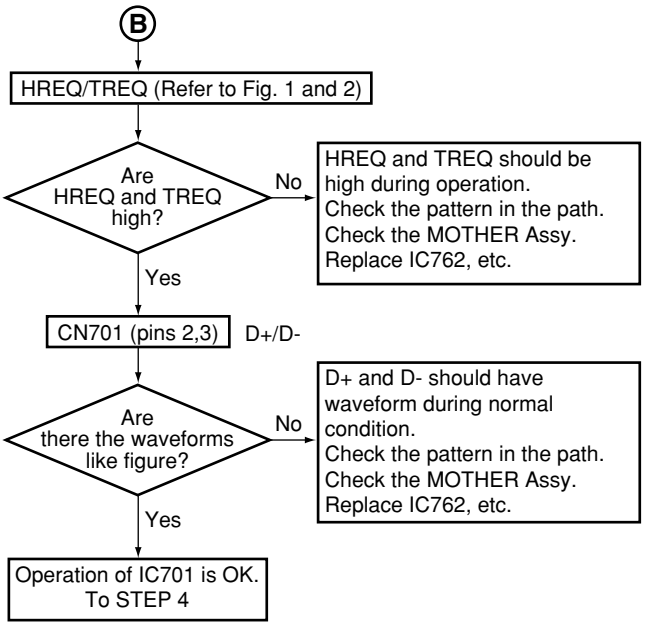
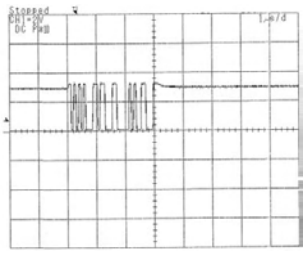
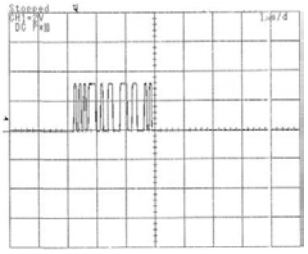


Fig. D+



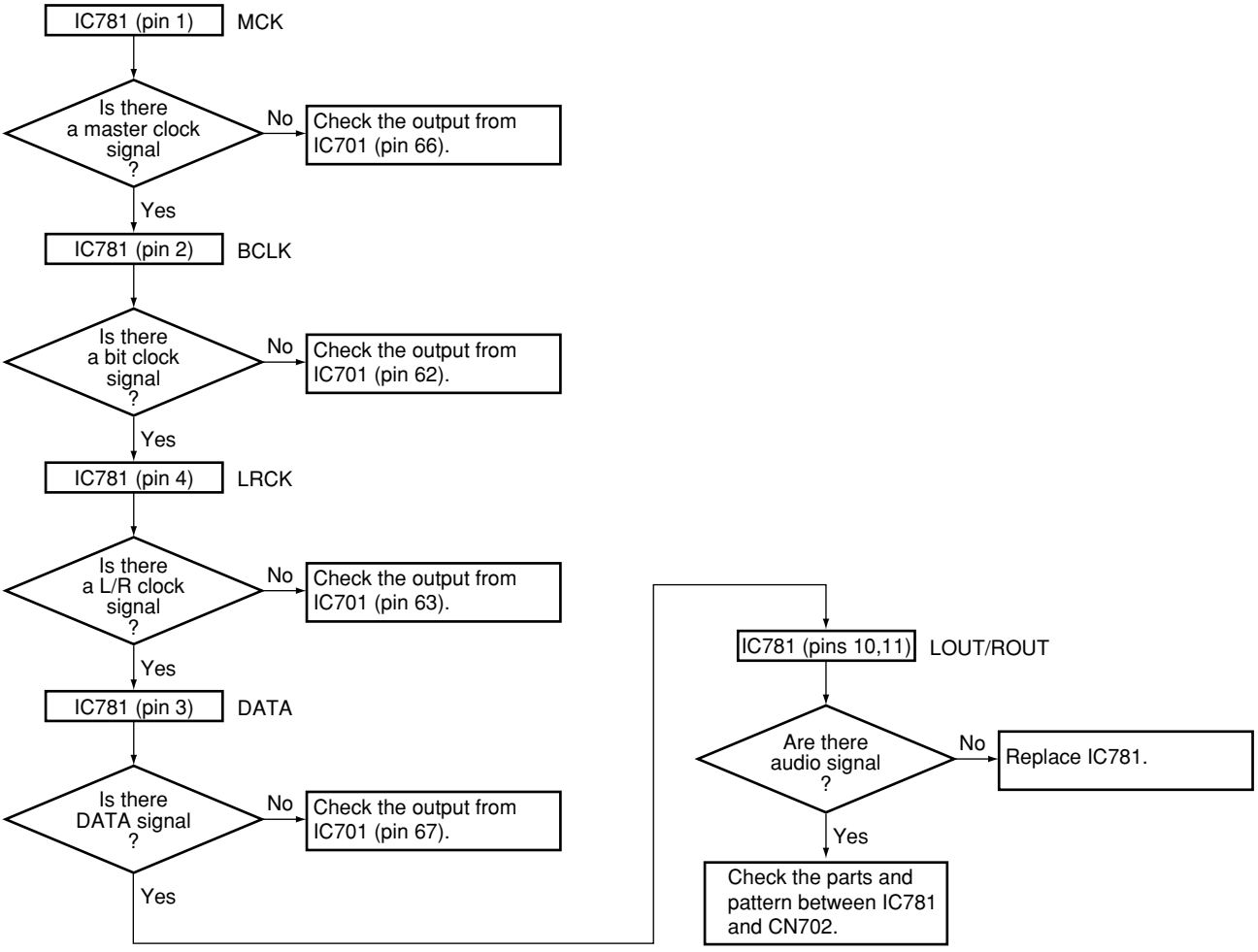
X: 1 µsec/div, Y: 2 V/div

Fig. D-



X: 1 µsec/div, Y: 2 V/div

Step 4: Audio Out check



7.1.6 HOW TO UPDATE FIRMWARE

■ Explanation

With this unit, updating of the firmware of the USB module can be performed, using a USB memory stick. However, if the hardware of the flash memory that stores the firmware or the firmware itself has a problem, updating cannot be performed in a manner described below. In such a case, replacement of the flash memory is required.

■ Procedures

1. Turn the unit on then set the function setting to USB function.
2. Insert the USB memory stick that contains the "player.rom" file.*
3. "LOADING" is indicated on the FL display.
4. "UPDATE" is indicated on the FL display.
5. Wait until "FINISH" is indicated on the FL display.
6. Remove the USB memory stick then set the function setting to anything other than USB.
7. Return the function setting to USB function and wait for about 5 seconds in order to obtain the version data of the USB firmware.
8. Turn the unit off (Standby mode).
9. Check the version ("U_xxxxxx" is suffixed to the version indication).
   If the version is not updated, the data for the new version may not have been obtained in Step 7. Repeat Step 7 and the subsequent steps.

Notes * :

- Never reinsert the USB memory stick that contains the "player.rom" file.
- In a rare case, depending on the type of USB memory stick, the above-mentioned updating procedures are not possible. In such a case, try with other type of USB memory stick.

Importance:

- Never change the function setting or turn the power off during the process of Steps 3 through 5. If you do, loading of the firmware will fail, and updating procedures cannot be continued. In such a case, replacement of the flash memory is required.

7.1.7 HOW TO UPDATE THE FLASH ROMS FOR VARIOUS MICROCOMPUTERS

■ HDMI, MAIN and DSP microcomputer

[Purpose]

Refer to this section when updating of a Flash ROM is required by the service information, etc.

[Tools to be used]

- PC with a serial port
- RS-232C cable (cf. following note)
- Program for updating (ufu.exe)
- RS-232C I/F jig (GGF1348)
- Firmware ("mot" extension)
- 7-pin FFC (VDA1681)

Note;

Please use a RS-232C cable properly as follows.

For updating HDMI microcomputer

--> straight cable (PC terminal-9pin male) [Connections A]

For updating MAIN microcomputer or DSP microcompute

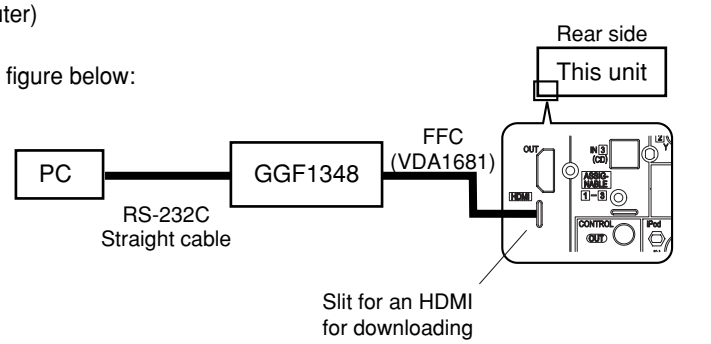
--> cross cable (PC terminal-25pin female) [Connections B]

[Connections A]

(HDMI microcomputer)

- HY and KU models -

Connect as indicated in the figure below:



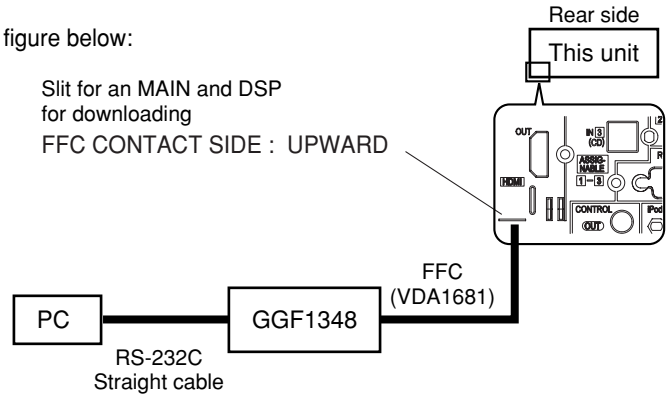
[Connections A]

(MAIN microcomputer)

(DSP microcomputer)

- HY models -

Connect as indicated in the figure below:



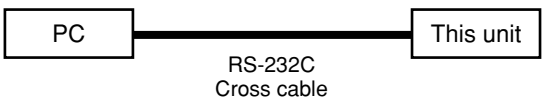
[Connections B]

(MAIN microcomputer)

(DSP microcomputer)

- KU models -

Connect as indicated in the figure below:

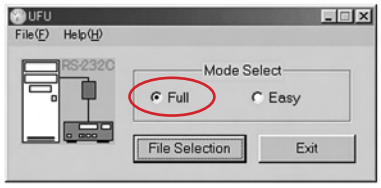


[Note]

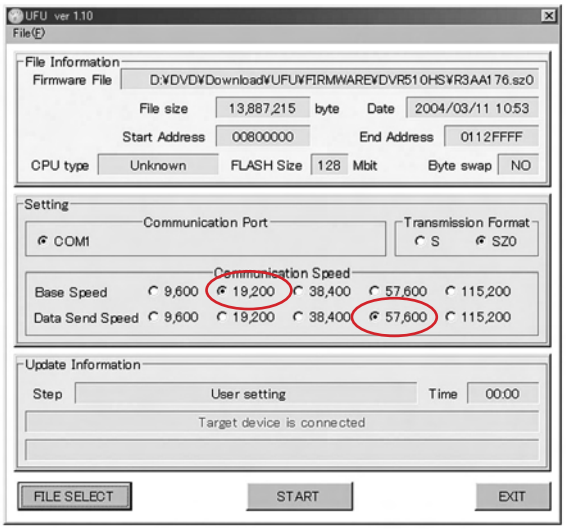
Do NOT disconnect the AC power cords of this unit nor the PC.

[Procedures]

1. Turn off the power to this unit by setting the main volume level to "---dB."
2. Connect the 232C I/F jigs and the PC, as indicated in "Connections."
3. (HDMI microcomputer) :
   Simultaneously press and hold the ENTER and FM/AM keys for about 5 seconds.
   (MAIN microcomputer) :
   Simultaneously press and hold the ENTER and HDMI keys for about 5 seconds.
   (DSP microcomputer) :
   - KU models
     Simultaneously press and hold the ENTER and XM keys for about 5 seconds.
   - HY models
     Simultaneously press and hold the ENTER and USB keys for about 5 seconds.
4. The unit is turned on, and "HDMI DOWNLOAD", "MAIN DOWNLOAD" or "DSPM DOWNLOAD" is displayed.
5. Double-click on "ufu.exe".
6. Check that "Full" is selected in MODE SELECT.
7. Select the firm ware file with "mot" extension.
8. Select the communication speed.
   - Basic speed: 19200
   - Data transfer speed: 57600
9. Click on "START" button.
10. (HDMI microcomputer) :
    "Completed" is displayed for about 1 minutes in the"ufu.exe" window.
    (MAIN microcomputer), (DSP microcomputer) :
    "Completed" is displayed for about 3 minutes in the"ufu.exe" window.
11. Disconnect then reconnect the AC power cord of the unit. If the unit is not reset, retry from Step 2.
12. Reset the receiver.
    Note: Note that all the data the receiver retains will be cleared.
13. Check the version.
    Following the procedures described in "Version indication" in "7.1.1 TEST MODE," check that the version has been changed to a new one.



Check that "Full" is selected in MODE SELECT.



Select the communication speed.
- Basic speed: 19200
- Data transfer speed: 57600

[Resettng the receiver]

1. Reset the receiver.
   Note: Note that all the data the receiver retains will be cleared.

Resetting the receiver
Use this procedure to reset all the receiver's settings to the factory default. Use the front panel controls to do this.

1 Switch the receiver into standby.

2 While holding down the front panel AV PARAMETER button, press and hold STANDBY/ON for about three seconds.
The display shows **RESET?**.

3 Press the front panel ENTER button.
The display shows **RESET OK?**.

4 Press SETUP to confirm.
OK appears in the display to indicate that the receiver has been reset to the factory default settings.
• Note that all settings will be saved, even if the receiver is unplugged.

7.1.8 HOW TO UPDATE THE DSP FLASH ROM BY PLAYING BACK CD

[Purpose]

By referring to this section, rewrite the DSP Flash ROM when required. Rewriting is instructed through service information, etc.
By playing back a CD-R on which a DSP program is recorded, using a normal CD player, rewriting is possible.

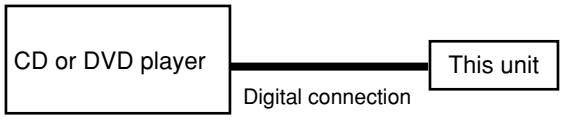
[Tools to be used]

Please use DVD plaer based on MTK system (DV-270, 370, 373, 575K, 280, 380, 383, etc.) ,Mitsubishi system (DV-59AVi, 868AVi, S969AVi, 668AVi, etc.) or Fujitsu system (DV-343, 444, 545, etc.) DO NOT use DVD player based on ST system (DV-353, 454, 250, 400, 555K, 260, 363, 464, 466, 563, etc.) The factory confirmed that DVD players based on ST system cannot send the correct data to the VSX unit using the update disc.
You can check the base system of our DVD players on the firmware version list at PSN web (Niis)

- Coaxial cable or Optical cable
- Update disc(CD-R disc)
- Headphone

[Connections]

Connect this unit and a player, as shown in the figure below.



[Preparations]

Burn the provided DSP program to a CD-R, using commercially available software for writing. It is necessary to select the writing format, "For music player", not "for PC data" format .

Note:

Depending on the writing format of the commercially available software to be used, data on a CD-R may not be used for DSP program rewriting. If the HDMI indicator does not flash when the disc is played back in the way indicated in Step 5 below, data burned on the CD-R are not appropriate. **To know whether the writing software is OK or not, play back the WMA9Pro stream stored on the last track of the disc. (Refer to "Troubleshooting" on next section.)**
If audio data are normally played back, the disc and the player can be used for updating. If audio data are not correctly played back (with noise, etc.), that writing software is not appropriate. Burn the DSP program on a CD-R disc, using other writing software.

[Note]

- **Do NOT disconnect the AC cords of this unit nor the CD/DVD player while rewriting is in progress.**
- **The "OK" indication displayed after updating means the checksum on the flash ROM is OK. If the "OK" indication is not displayed, updating has not been completed.**

Note that confirmation with audio check or version check is insufficient for checking if updating has been completed.
If you set the unit to STANDBY OFF without confirming of "OK" indication on the FL display, be sure to perform the updating procedures again.

[Procedures]

1. Reset the receiver.
   Note: Note that all the data the receiver retains will be cleared.

Resetting the system
Use this procedure to reset all the receiver's settings to the factory default. Use the front panel controls to do this.

1 Switch the receiver into standby.

2 While holding down the front panel TONE button, press and hold STANDBY/ON for about three seconds.
The display shows **RESET?**.

3 Press the front panel ENTER button.
The display shows **RESET OK?**.

4 Press SYSTEM SETUP to confirm.
OK appears in the display to indicate that the receiver has been reset to the factory default settings.
• Note that all settings will be saved, even if the receiver is unplugged.

[Procedures]

2. Check the versions of the DSP and microcomputer.
   Check the versions by referring to "Version indication" in "7.1.1 TEST MODE."

3. Connect a CD or DVD player.
   (1) Connect the CD or DVD player to be used for updating to any digital input connector of this unit.
   (2) With the INPUT SELECTOR, select the input being used.

4. Check if the digital signal is locked (received).
   (1) Play back a stream for updating with the player.
   (2) Set the receiver to normal setting, "Signal Select" to Auto, then check on the Signal Select indicator whether the input is set to Auto and Digital.

5. Start up this unit in writing mode.
   (1) Relocate the CD playback starting point to the beginning (time: 0:00) of the track No and pause playback.
   (2) Set the volume of the receiver to - ∞ dB and set the receiver to STANDBY OFF.
   (3) Simultaneously press and hold the ENTER and iPOD keys until "DSPF DOWNLOAD" is displayed on the FL display. The unit enters writing mode.

6. Play back the track on CD disc.
   (1) Release Pause mode of the player and play back the track where the DSP program stream signal to be burned is stored.
   (2) After 5-10 seconds, the HDMI indicator starts flashing. Be sure to check that it is flashing.
   (3) Flashing indicates that a correct stream is being received and that updating is in progress.

   Note: Do NOT turn off the unit while the HDMI indicator is flashing. If the unit is turned off, be sure to go back to Step 5. (As the Flash ROM goes into unusual status if the power is off during rewriting, the unit may not start properly.) Even in such a case, you can restore the unit by performing Steps 5 to 8.

7. Wait until rewriting is completed.
   (1) Basically, wait until "OK" is displayed on the FL display. It takes about 2 minutes for updating.
   (2) After confirming that "OK" is displayed, stop or pause the player then after 5 seconds set the player to STANDBY OFF.

8. Check the version of the program after updating.
   (1) Check the version by simultaneously pressing and holding the STANDBY/ON and MULTI CH IN keys.
   (2) For confirmation, check basic operations.

7.1.9 DISASSEMBLY

Note 1: Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

Note 2: For performing the diagnosis shown below, the following jigs for service is required:

- 11P board to board extension jig cable (GGD1482)
- 13P board to board extension jig cable (GGD1483)
- 15P board to board extension jig cable (GGD1484)
- 21P board to board extension jig cable (GGD1485)

1. Before the Power Amp Block is removed

Before the Power Amp Block is removed, discharge C3257 and C3258 on the TRANS 2-1 Assy, as indicated below.
If you don't, the IC protectors (IC3351 and IC3352) on the VH TR Assy may be open, and DC voltage may be generated at the power amplifier output, which will result in "AMP ERR."

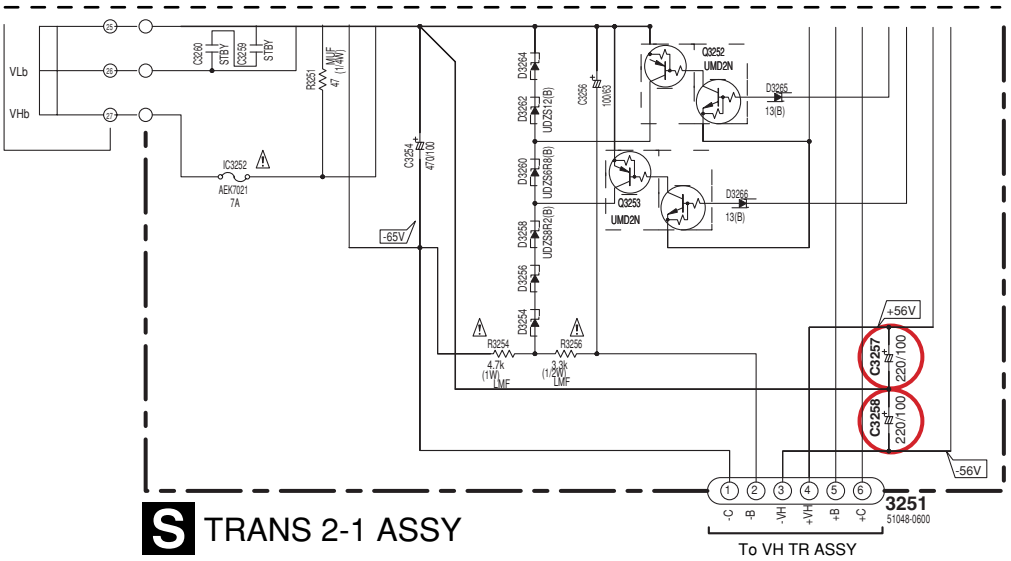
[Procedure]

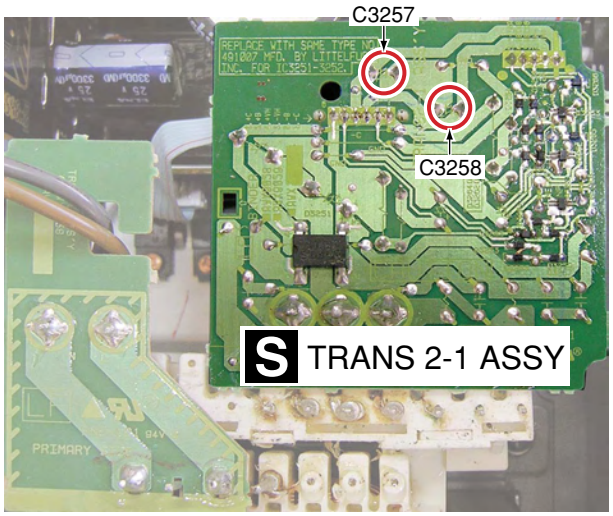
① Unplug the AC power cord.

② Discharge C3257 and C3258 on the TRANS 2-1 Assy.
Note: For discharging, use a load of 100Ω, 3W or more, to protect the IC protectors. Do NOT discharge instantly by short-circuiting.

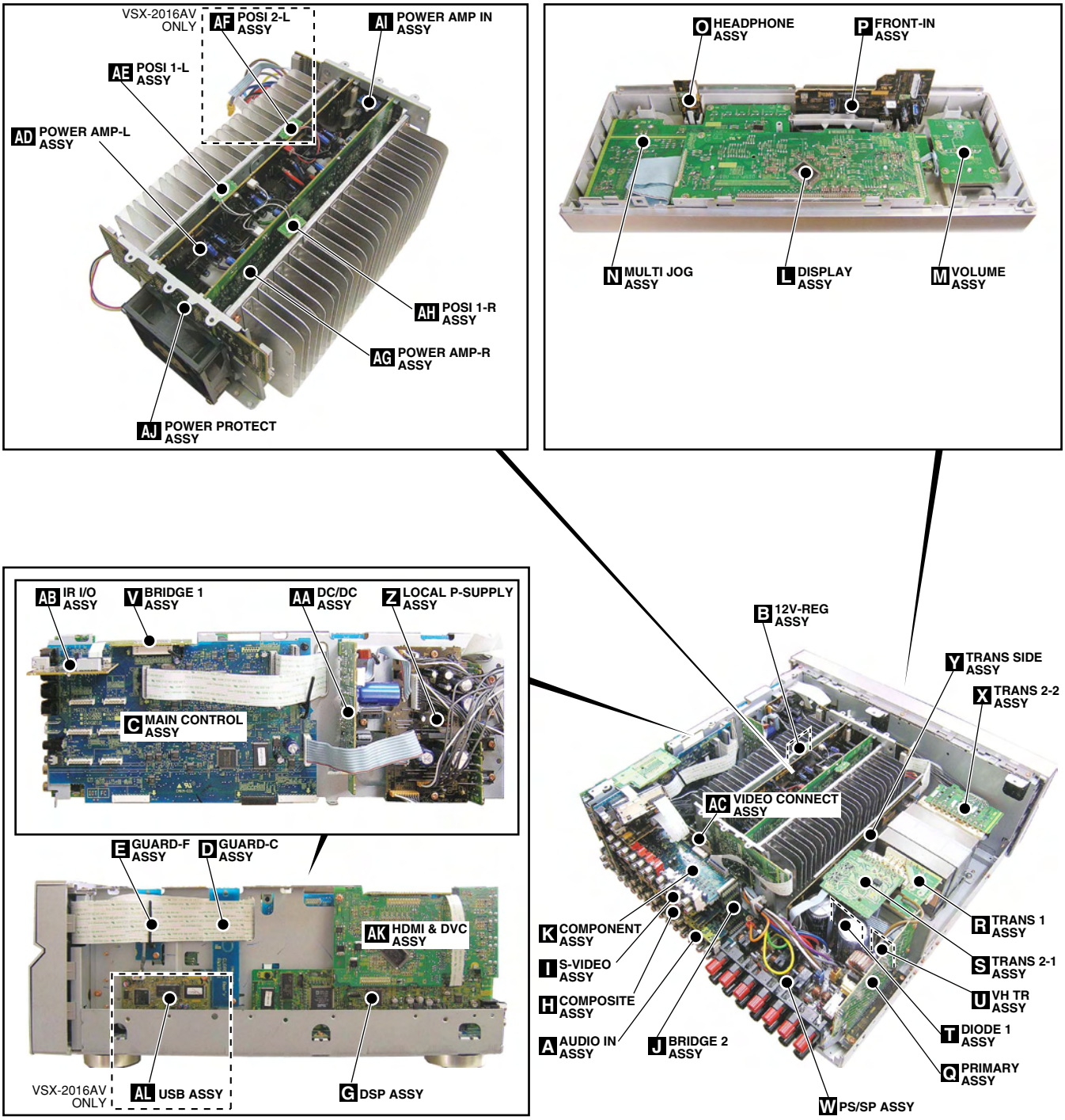
③ Check that the voltage between the electrodes of each C3257 and C3258 is 1V or less.

④ Reassembling the Power Amp Block.





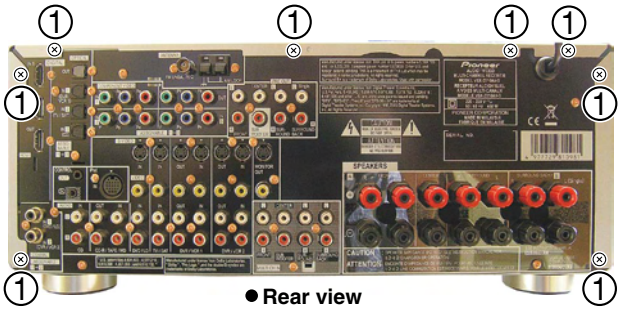
2. PCB Location



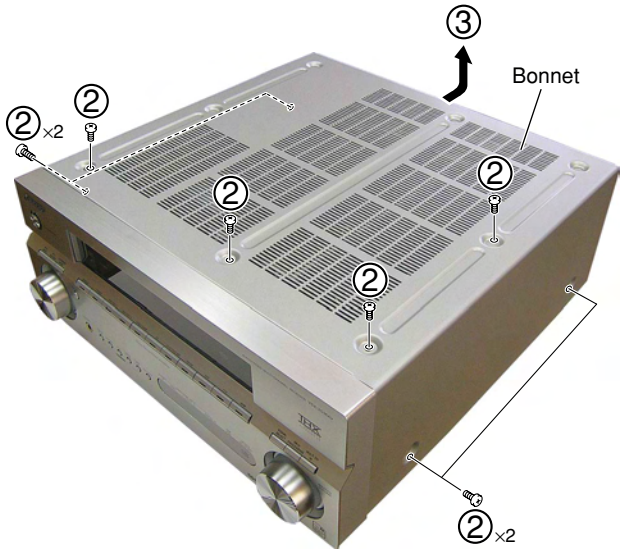
3. Disassembly

1 Bonnet

① Remove the eight screws.



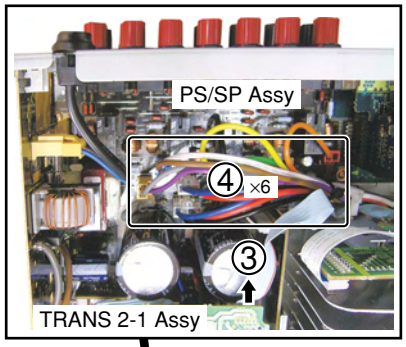
② Remove the eight screws.
③ Remove the bonnet.

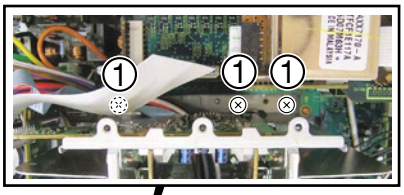


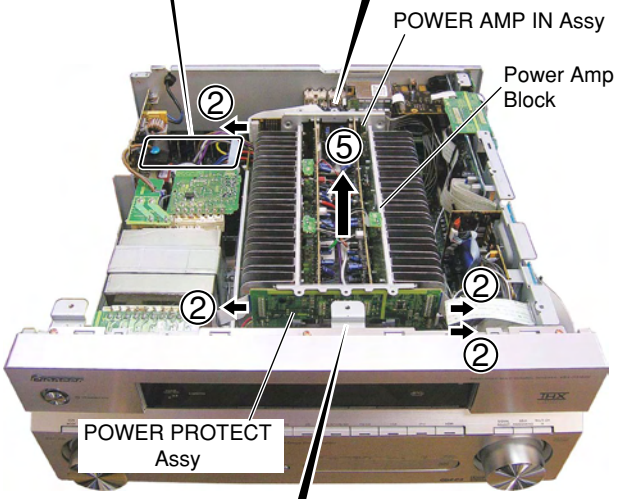
2 Power Amp Block

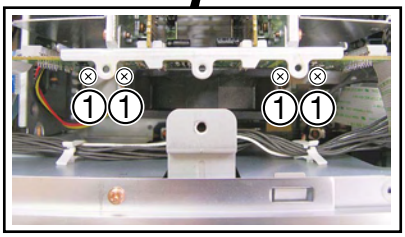
Caution:
Before removing the Power Amp Block, discharge C3257 and C3258 on the TRANS 2-1 Assy.
Refer to "1. Before the Power Amp Block is removed".

① Remove the seven screws.
② Disconnect the three flexible cables and the one connector.
③ Disconnect the one jumper wire.
④ Disconnect the six connectors.
⑤ Remove the power amp block.





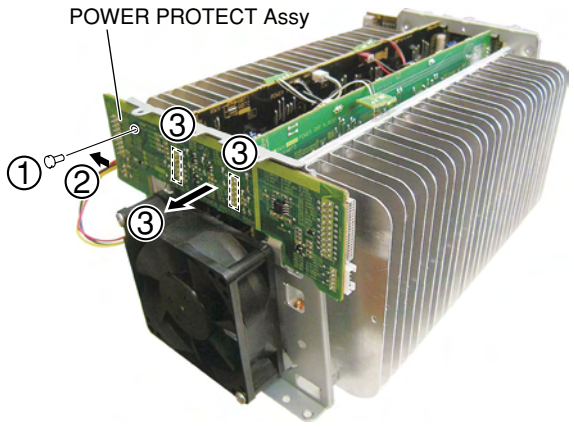




3 Replacing the Power Transistor

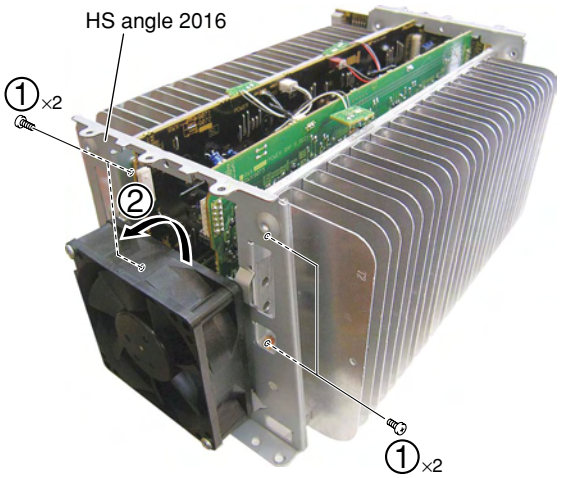
● POWER PROTECT Assy

① Remove the one nylon rivet.
② Disconnect the one connector. (VSX-2016AV only)
③ Remove the POWER PROTECT Assy by removing the two connectors.



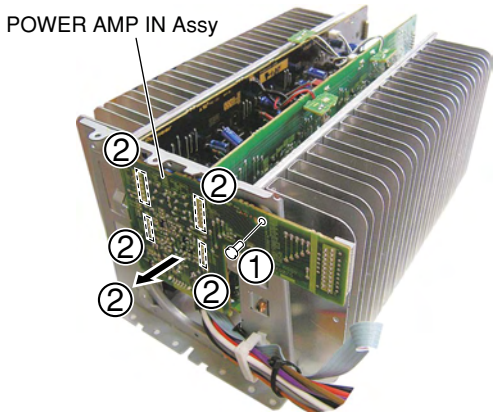
● HS Angle 2016

① Remove the four screws.
② Remove the HS angle 2016.



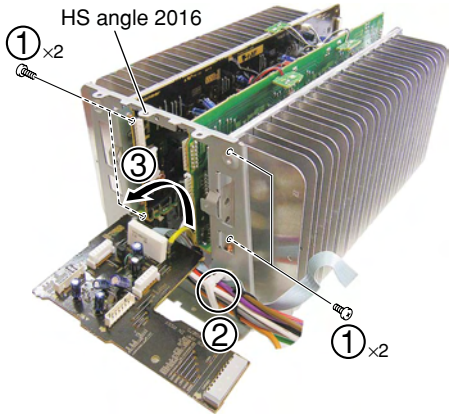
● POWER AMP IN Assy

① Remove the one nyron rivet.
② Remove the POWER AMP IN Assy by removing the four connectors.

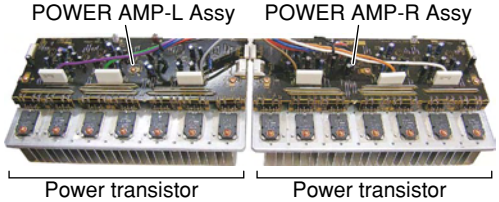


● HS Angle 2016

① Remove the four screws.
② Release the clamper.
③ Remove the HS angle 2016.



● Replacing the Power Transistor



Replace

4 Replacing the AUDIO IN Assy

● Rear Panel

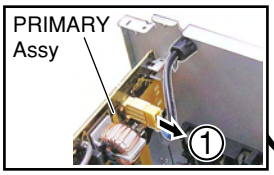
① Disconnect the one connector.

② Remove the four cushion circle 14B.

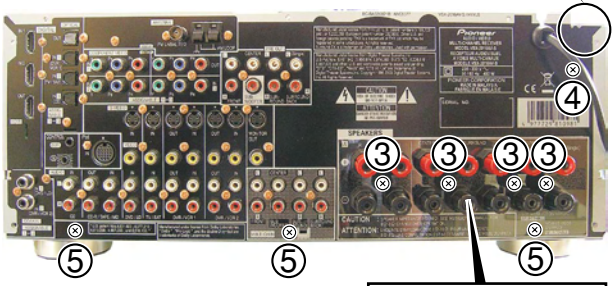
③ Remove the four screws.

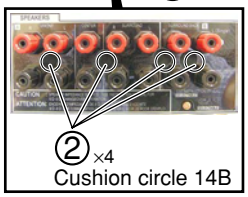
④ Remove the one screw.
(KU model: Remove the three screws.)

⑤ Remove the three screws.



● Rear view



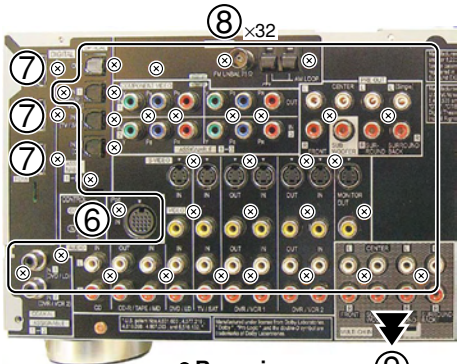


⑥ Remove the one screw.

⑦ Remove the three screws.

⑧ Remove the 32 screws.
(KU model: Remove the 34 screws.)

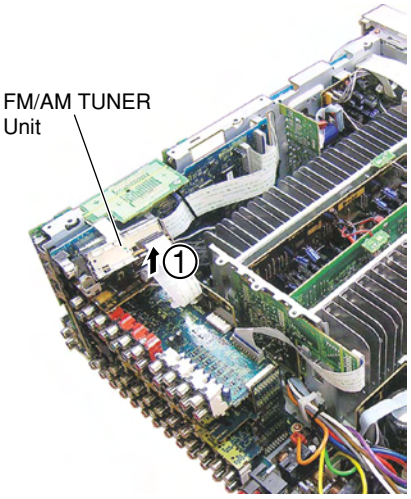
⑨ Remove the rear panel.



● Rear view ⑨

● FM/AM TUNER Unit

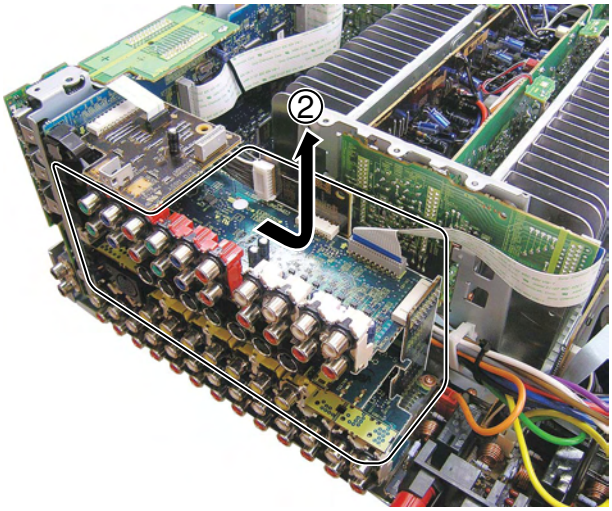
① Remove the FM/AM TUNER Unit by removing the one flexible cable.



● PCB Assys

① Disconnect cables, connectors, as required.

② First remove the BRIDGE 2 Assy, then remove the COMPOSITE, S-VIDEO, COMPONENT and VIDEO CONNECT Assys.

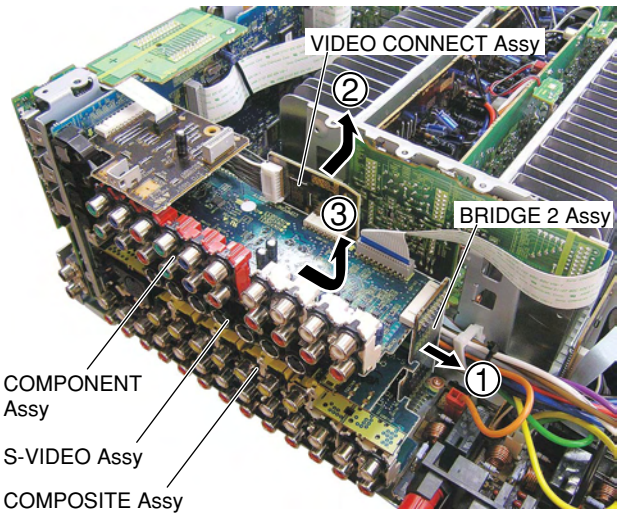


4. Diagnosis

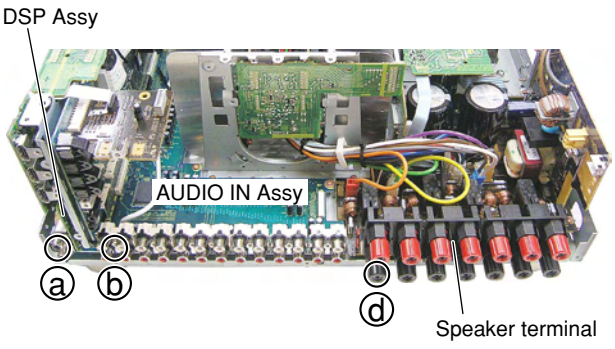
1 Preparations

❶ Remove the bonnet.
❷ Remove the rear panel.

① Remove the BRIDGE 2 Assy.
② Remove the VIDEO CONNECT Assy.
③ Remove the COMPONET, S-VIDEO, COMPOSITE Assys.

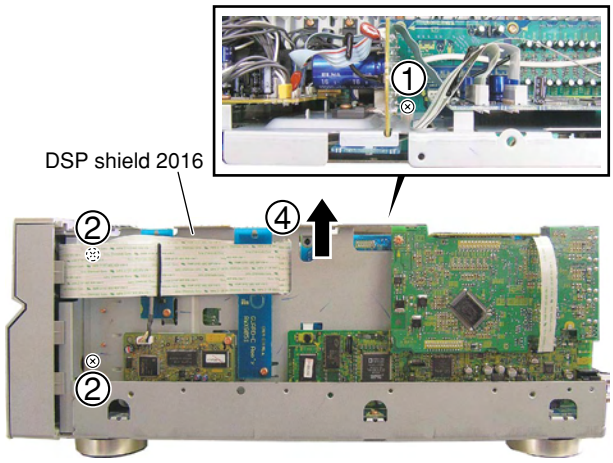


④ Connect the earth points to chassis as follows.
ⓐ Pin jack (GND) on the DSP Assy ↔ chassis
ⓑ Pin jack (L side GND) on the AUDIO IN Assy ↔ chassis
ⓒ Pin jack (Yellow GND) on the COMPOSITE Assy ↔ chassis
ⓓ Speaker terminal (L side black) ↔ chassis



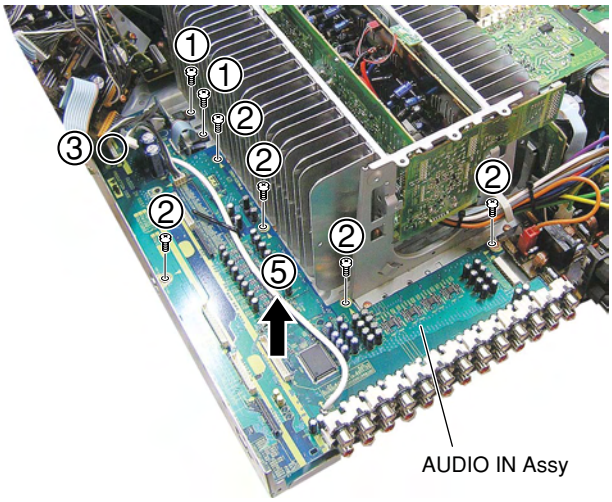
● DSP Shield Section

① Remove the one screw.
② Remove the two screws.
③ Disconnect cables, connectors, as required.
④ Remove the DSP shield 2016 with PCB Assemblies..



● AUDIO IN Assy

① Remove the two screws.
② Remove the five screws.
③ Release the locking card spacer.
④ Disconnect cables, connectors, as required.
⑤ Remove the AUDIO IN Assy.



2 Diagnosis

● COMPONENT Assy

Jig cable

- 11P board to board extension jig cable (GGD1482)
- 13P board to board extension jig cable (GGD1483) ×2

① Connect the three extension jig cables.

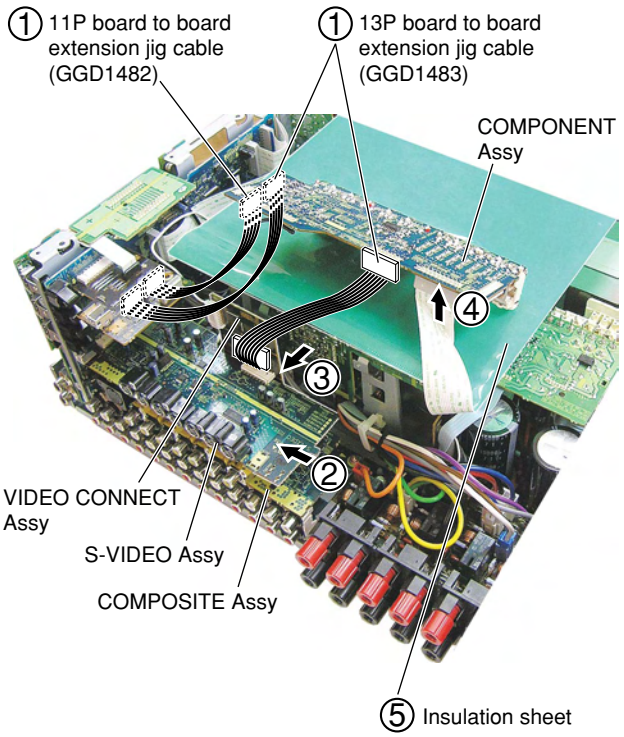
② Reassembling the S-VIDEO and COMPOSITE Assys.

③ Reassembling the VIDEO CONNECT Assy.

④ Connect the one flexible cable.

⑤ Insert the insulation sheet.

⑥ Arrange the unit as shown in the photo below.



Diagnosis

● S-VIDEO Assy

Jig cable

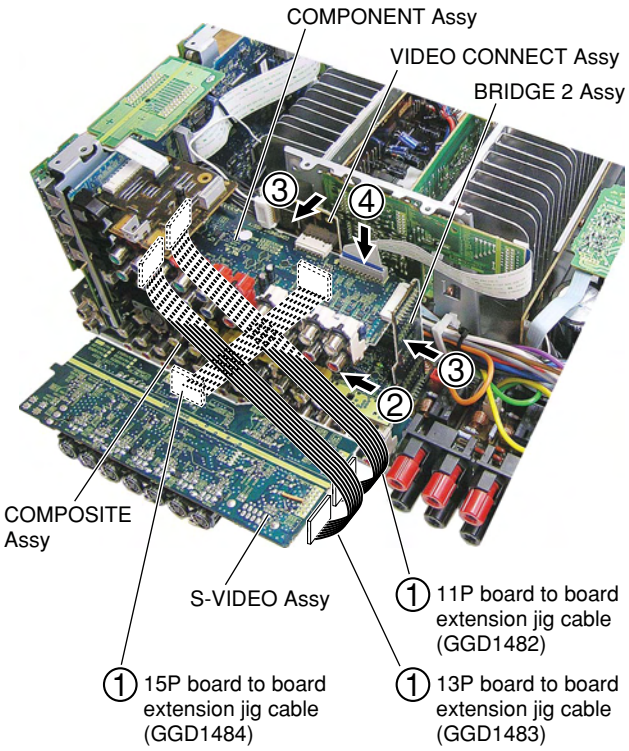
- 11P board to board extension jig cable (GGD1482)
- 13P board to board extension jig cable (GGD1483)
- 15P board to board extension jig cable (GGD1484)

① Connect the three extension jig cables.

② Reassembling the COMPONENT and COMPOSITE Assys.

③ Reassembling the BRIDGE 2 and VIDEO CONNECT Assys.

④ Connect the one flexible cable.



Diagnosis

● **COMPOSITE Assy**

Jig cable

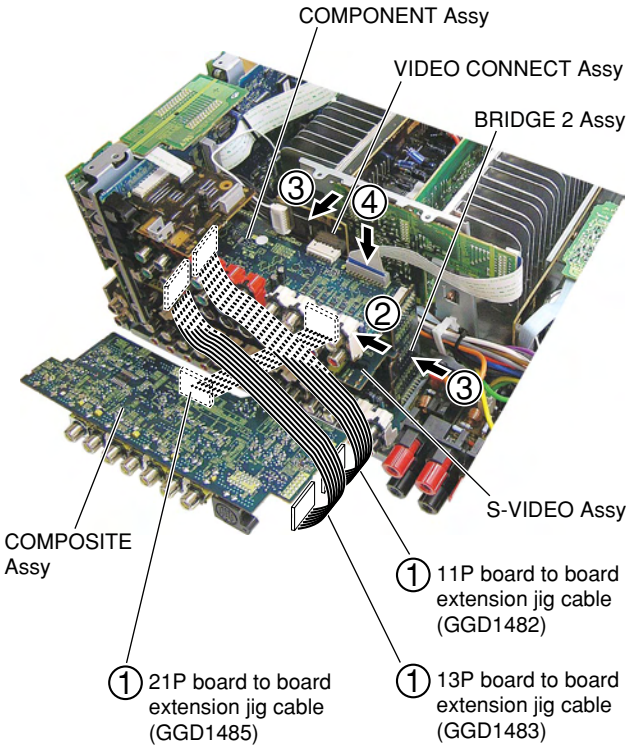
- 11P board to board extension jig cable (GGD1482)
- 13P board to board extension jig cable (GGD1483)
- 21P board to board extension jig cable (GGD1485)

① Connect the three extension jig cables.

② Reassembling the COMPONENT and S-VIDEO Assys.

③ Reassembling the BRIDGE 2 and VIDEO CONNECT Assys.

④ Connect the one flexible cable.



Diagnosis

7.2 PARTS
7.2.1 IC

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

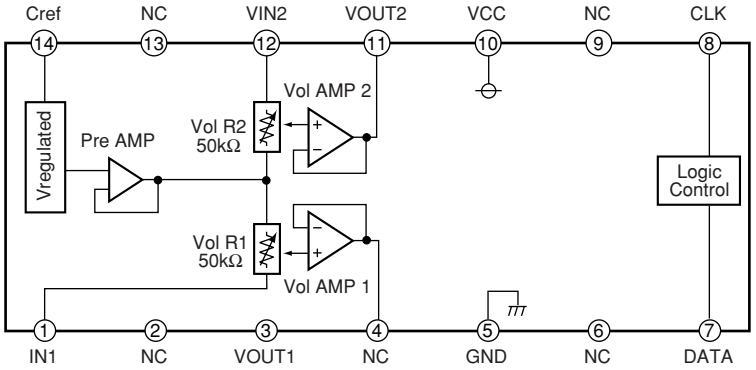
● **List of IC**

M61545FP, LA7109, PDC132A, PEG118A, PEG116A, TCC760HC01-AG, AAT4618IGV-0.5-1

■ M61545FP (COMPOSITE ASSY : IC1151)

• 2 ch Electronic Volime IC

● **Block Diagram**



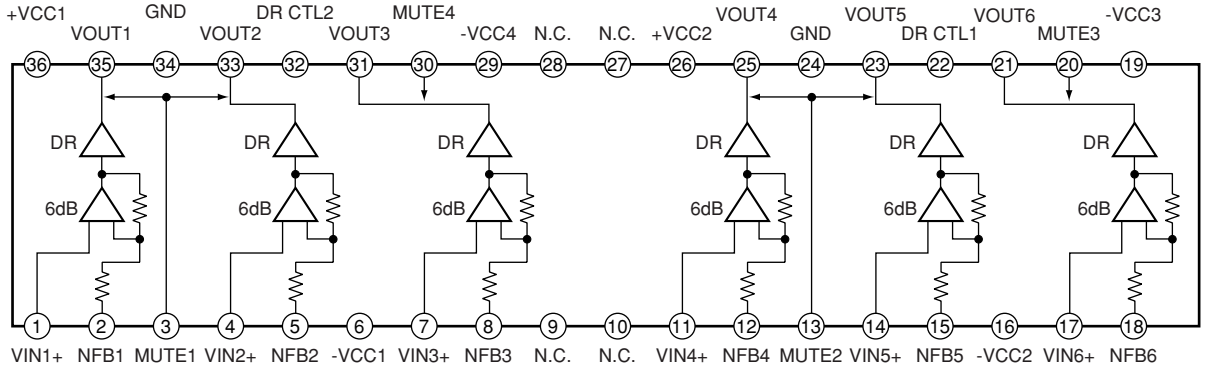
● **Pin Function**

No.	Pin Name	I/O	Pin Function
1	VIN1	I	1-ch input
2	NC	–	Non connection
3	VOUT1	O	1-ch output
4	NC	–	Non connection
5	GND	–	Ground
6	NC	–	Non connection
7	DATA	I	Control data input Inputs data in synchronization with clock.
8	CLK	I	Clock input pin for transferring serial data
9	NC	–	Non connection
10	VCC	–	Power supply
11	VOUT2	O	2-ch output
12	VIN2	I	2-ch input
13	NC	–	Non connection
14	Cref	I	Vref filter

LA7109 (COMPOSITE ASSY : IC1004), (S-VIDEO ASSY : IC1205)

• Video Amp IC

● Block Diagram



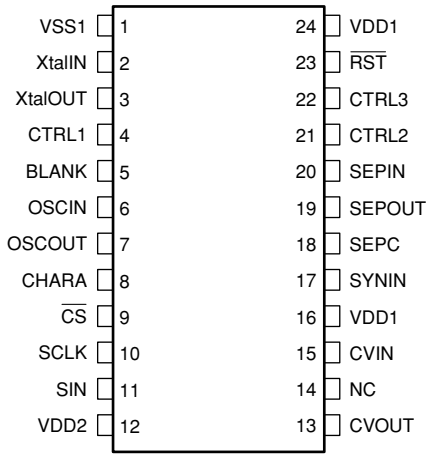
● Pin Function

No.	Pin Name	I/O	Pin Function	No.	Pin Name	I/O	Pin Function
1	VIN1+	I	Input pin	19	-VCC3	–	-VCC power supply
2	NFB1	I	Negative feedback pin of amp	20	MUTE3	I	Changeover pin of mute ability
3	MUTE1	I	Changeover pin of mute ability	21	VOUT6	O	Output pin
4	VIN2+	I	Input pin	22	DR CTL1	I	Changeover pin of drive ability
5	NFB2	I	Negative feedback pin of amp	23	VOUT5	O	Output pin
6	-VCC1	–	-VCC power supply	24	GND	–	Ground
7	VIN3+	I	Input pin	25	VOUT4	O	Output pin
8	NFB3	I	Negative feedback pin of amp	26	+VCC2	–	+VCC power supply
9	N.C.	–	Recommend connecting to -Vcc	27	N.C.	–	Recommend connecting to -Vcc
10	N.C.	–	Recommend connecting to -Vcc	28	N.C.	–	Recommend connecting to -Vcc
11	VIN4+	I	Input pin	29	-VCC4	–	-VCC power supply
12	NFB4	I	Negative feedback pin of amp	30	MUTE4	I	Changeover pin of mute ability
13	MUTE2	I	Changeover pin of mute ability	31	VOUT3	O	Output pin
14	VIN5+	I	Input pin	32	DR CTL2	I	Changeover pin of drive ability
15	NFB5	I	Negative feedback pin of amp	33	VOUT2	O	Output pin
16	-VCC2	–	-VCC power supply	34	GND	–	Ground
17	VIN6+	I	Input pin	35	VOUT1	O	Output pin
18	NFB6	I	Negative feedback pin of amp	36	+VCC1	–	+VCC power supply

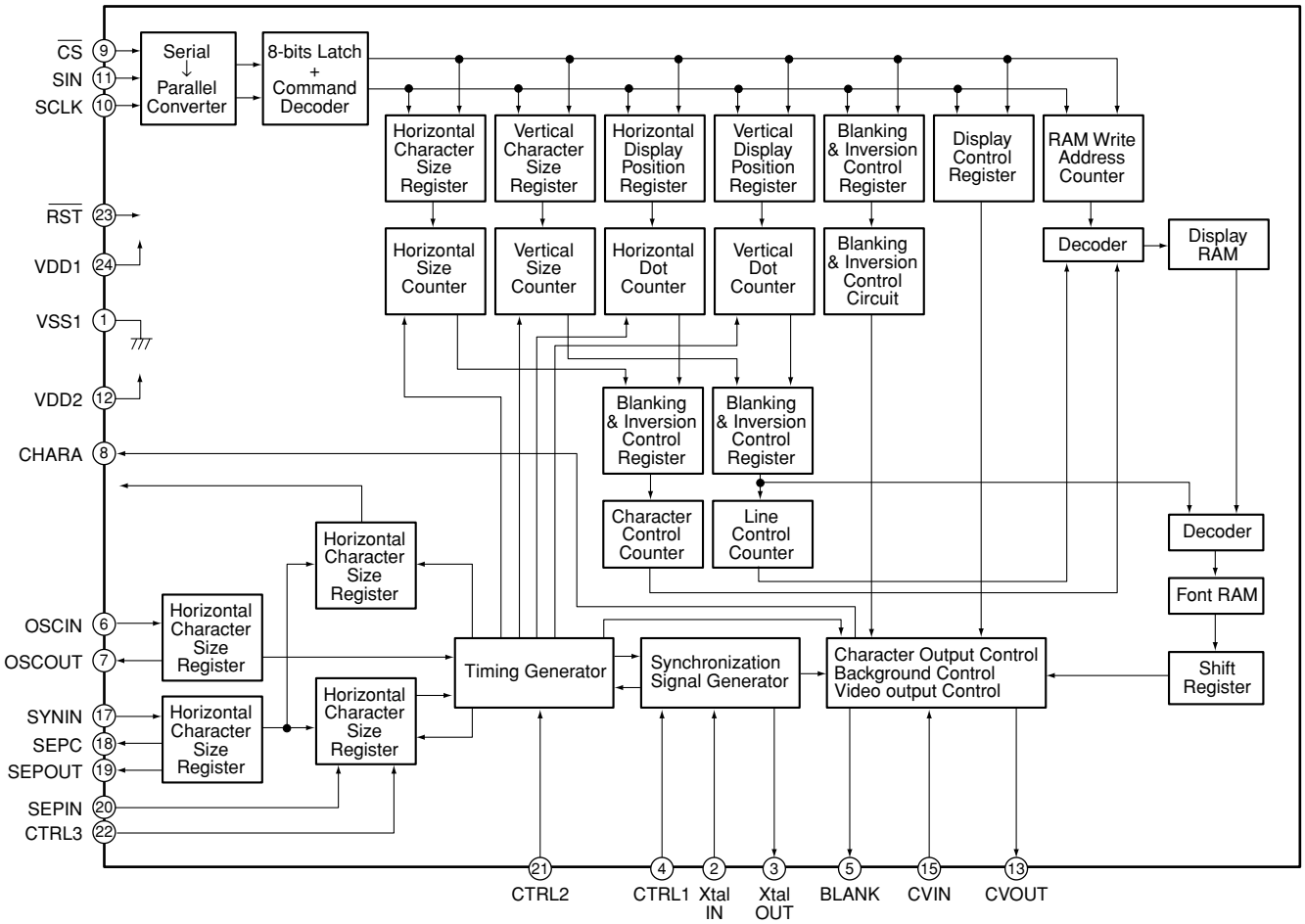
PDC132A (COMPOSITE ASSY : IC1006)

• Character Generator IC

● Pin Arrangement (Top view)



● Block Diagram



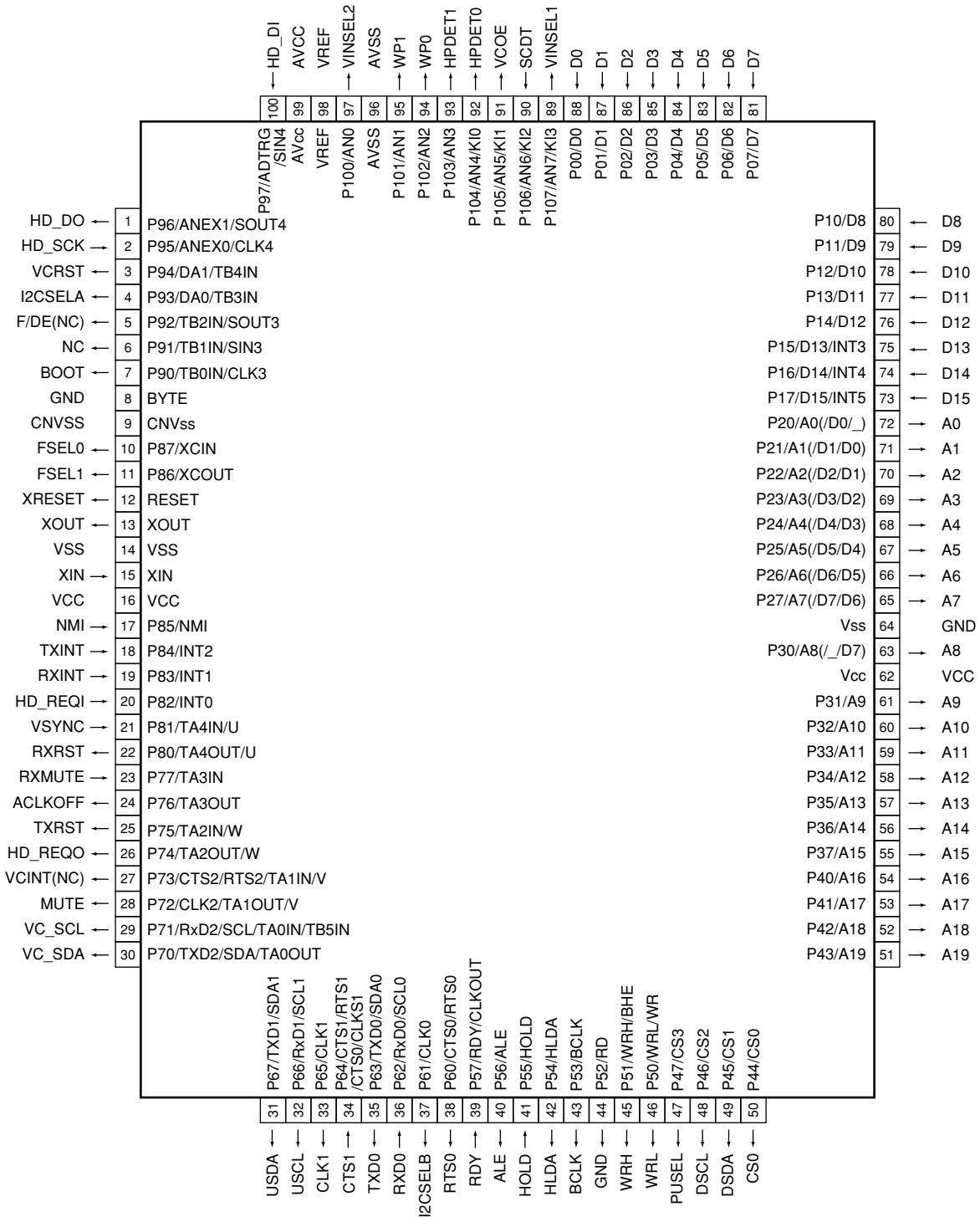
● **Pin Function**

No.	Pin Name	I/O	Pin Function
1	VSS1	–	Digital ground
2	XtalIN	I	Crystal oscillator connection (2fsc or 4fsc)
3	XtalOUT	O	Crystal oscillator connection (2fsc or 4fsc)
4	CTRL1	I	Crystal oscillator input switching L: crystal oscillator mode, H: external clock mode
5	BLANK	O	Blank signal output Outputs a composite sync signal when MOD0 is high.
6	OSCIN	I	Connections for the coil and capacitor that form the oscillator that generates the character output dot clock.
7	OSCOUT	O	Connections for the coil and capacitor that form the oscillator that generates the character output dot clock.
8	CHARA	I	Character signal output
9	$\overline{CS}$	I	Enable input for serial data input Serial data input is enabled when low. A pull-up resistor is built in (hysteresis input).
10	SCLK	I	Clock input for serial data I/O A pull-up resistor is built in (hysteresis input).
11	SIN	I	Serial data input A pull-up resistor is built in (hysteresis input).
12	VDD2	–	Analog power supply
13	CVOUT	O	Composite video signal output
14	NC	–	Must be either connected to ground or left open.
15	CVIN	I	Composite video signal input
16	VDD1	–	+5 V digital power supply
17	SYNIN	I	Video signal input for the built-in sync separator circuit
18	SEPC	O	Built-in sync separator circuit bias voltage monitor pin
19	SEPOUT	O	Built-in sync separator circuit composite sync signal output
20	SEPIN	I	Inputs a vertical synchronization signal created by integrating the SEPOUT pin output signal.
21	CTRL2	I	The setting indicated by this pin takes priority in switching between the NTSC, PAL, PAL-M and PAL-N formats. A low level selects NTSC after a reset. The microprocessor command NTSC, PAL, PAL-M, or PAL-N setting is valid. High = PAL-M format.
22	CTRL3	I	Controls whether or not the $\overline{VSYNC}$ signal is input to the SEPIN input. Low = $\overline{VSYNC}$ input, high = $\overline{VSYNC}$ not input.
23	$\overline{RST}$	I	System reset input
24	VDD1	–	+5 V digital power supply

■ PEG118A (HDMI & DVC ASSY : IC501)

• HDMI Microcomputer

● Pin Arrangement (Top view)



● **Pin Function**

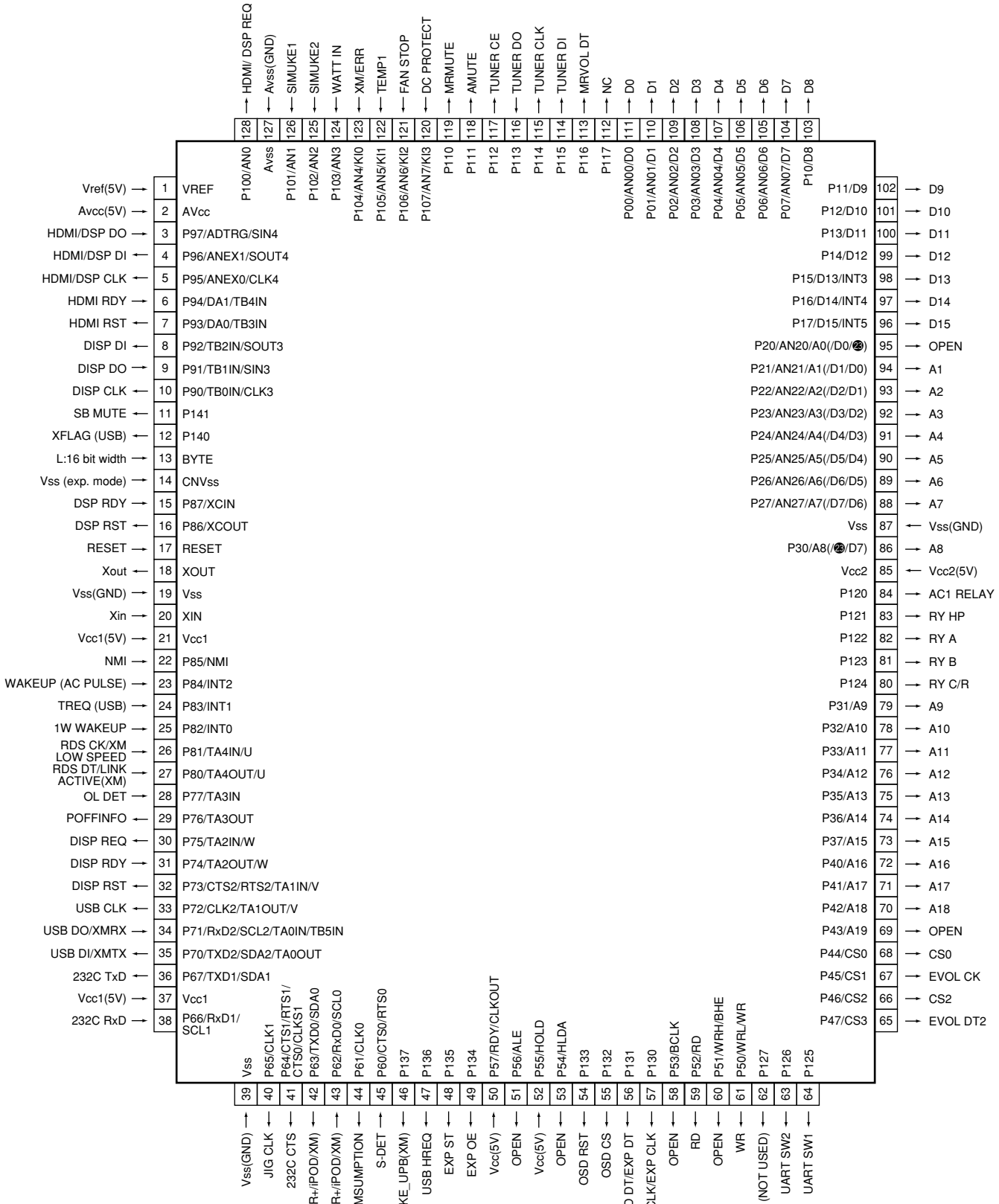
No.	Mark	Pin Name	I/O	Pin Function
1	P96/ANEX1/SOUT4	HD_DO	O	Main controller communication DATA OUT
2	P95/ANEX0/CLK4	HD_SCK	I	Main controller communication CLOCK IN
3	P94/DA1/TB4IN	VCRST	O	ADV7401/ADV7172 RESET, (L: RESET)
4	P93/DA0/TB3IN	/1080P	O	TMDS amplitude switch (L:1080p, H: excepting 1080p)
5	P92/TB2IN/SOUT3	NC	O	OPEN
6	P91/TB1IN/SIN3	NC	O	OPEN
7	P90/TB0IN/CLK3	NC	O	OPEN
8	BYTE	BYTE	–	GND
9	CNVss	CNVSS	–	GND
10	P87/XCIN	NC	O	OPEN
11	P86/XCOUT	NC	O	OPEN
12	RESET	XRESET	I	Main controller communication RESET input (L: RESET)
13	XOUT	XOUT	O	XTAL
14	VSS	VSS	–	GND
15	XIN	XIN	I	XTAL
16	VCC	VCC	–	Power supply 3.3V
17	P85/NMI	NMI	I	Pull up with Vcc
18	P84/INT2	TXINT	I	Sil9030 interrupt
19	P83/INT1	RXINT	I	Sil9033 interrupt
20	P82/INT0	HD_REQI	I	Main controller communication REQ IN
21	P81/TA4IN/U	VSYNC	I	Sil9033 VSYNC input
22	P80/TA4OUT/U	RXRST	O	Sil9033 RESET (L: RESET)
23	P77/TA3IN	RXMUTE	I	Sil9033 MUTE IN
24	P76/TA3OUT	MCK_OFF	O	AUDIO MCK OFF (not used)
25	P75/TA2IN/W	TXRST	O	Sil9030 RESET (L: RESET)
26	P74/TA2OUT/W	HD_REQO	O	Main controller communication REQ OUT
27	P73/CTS2/RTS2/TA1IN/V	VCINT(NC)	O	ADV7401 interrupt (not used)
28	P72/CLK2/TA1OUT/V	MUTE	O	AUDIO MUTE (H: MUTE)
29	P71/RxD2/SCL/TA0IN/TB5IN	VC_SCL	O	I2C SCL(ADV7401/ADV7172)
30	P70/TXD2/SDA/TA0OUT	VC_SDA	O	I2C SDA(ADV7401/ADV7172)
31	P67/TXD1/SDA1	CSDA	O	I2C SDA(Sil9033/Sil9030)
32	P66/RxD1/SCL1	CSCL	O	I2C SCL(Sil9033/Sil9030)
33	P65/CLK1	CLK1(NC)	O	OPEN
34	P64/CTS1/RTS1/CTS0/CLKS1	CTS1(NC)	O	OPEN
35	P63/TXD0/SDA0	TXD0	O	RS232C TXD
36	P62/RxD0/SCL0	RXD0	I	RS232C RXD
37	P61/CLK0	NC	O	OPEN
38	P60/CTS0/RTS0	RTS0	O	RS232C RTS
39	P57/RDY/CLKOUT	RDY	I	Pull up with Vcc
40	P56/ALE	ALE	O	OPEN
41	P55/HOLD	HOLD	I	Pull up with Vcc
42	P54/HLDA	HLDA	O	OPEN
43	P53/BCLK	BCLK	O	Pull up with Vcc
44	P52/RD	RD	O	FLASH ROM I/F RD
45	P51/WRH/BHE	BHE	O	OPEN
46	P50/WRL/WR	WR	O	FLASH ROM I/F WR
47	P47/CS3	PUSEL	O	DDC communication pull-up resistor switch (L: Normal operation)
48	P46/CS2	NC	O	OPEN

No.	Mark	Pin Name	I/O	Pin Function
49	P45/CS1	NC	O	OPEN
50	P44/CS0	CS0	O	FLASH ROM I/F CS
51	P43/A19	NC	O	OPEN
52	P42/A18	A18	O	FLASH ROM I/F
53	P41/A17	A17	O	FLASH ROM I/F
54	P40/A16	A16	O	FLASH ROM I/F
55	P37/A15	A15	O	FLASH ROM I/F
56	P36/A14	A14	O	FLASH ROM I/F
57	P35/A13	A13	O	FLASH ROM I/F
58	P34/A12	A12	O	FLASH ROM I/F
59	P33/A11	A11	O	FLASH ROM I/F
60	P32/A10	A10	O	FLASH ROM I/F
61	P31/A9	A9	O	FLASH ROM I/F
62	Vcc	VCC	–	Power supply 3.3V
63	P30/A8(/㉓/D7)	A8	O	FLASH ROM I/F
64	Vss	GND	–	GND
65	P27/A7(/D7/D6)	A7	O	FLASH ROM I/F
66	P26/A6(/D6/D5)	A6	O	FLASH ROM I/F
67	P25/A5(/D5/D4)	A5	O	FLASH ROM I/F
68	P24/A4(/D4/D3)	A4	O	FLASH ROM I/F
69	P23/A3(/D3/D2)	A3	O	FLASH ROM I/F
70	P22/A2(/D2/D1)	A2	O	FLASH ROM I/F
71	P21/A1(/D1/D0)	A1	O	FLASH ROM I/F
72	P20/A0(/D0/㉙)	NC	O	OPEN
73	P17/D15/INT5	D15	I	FLASH ROM I/F
74	P16/D14/INT4	D14	I	FLASH ROM I/F
75	P15/D13/INT3	D13	I	FLASH ROM I/F
76	P14/D12	D12	I	FLASH ROM I/F
77	P13/D11	D11	I	FLASH ROM I/F
78	P12/D10	D10	I	FLASH ROM I/F
79	P11/D9	D9	I	FLASH ROM I/F
80	P10/D8	D8	I	FLASH ROM I/F
81	P07/D7	D7	I	FLASH ROM I/F
82	P06/D6	D6	I	FLASH ROM I/F
83	P05/D5	D5	I	FLASH ROM I/F
84	P04/D4	D4	I	FLASH ROM I/F
85	P03/D3	D3	I	FLASH ROM I/F
86	P02/D2	D2	I	FLASH ROM I/F
87	P01/D1	D1	I	FLASH ROM I/F
88	P00/D0	D0	I	FLASH ROM I/F
89	P107/AN7/KI3	I2S_OFF	O	Audio data control I2S data OFF (H: OFF)
90	P106/AN6/KI2	SCDT	I	SiI9033 SCDT input
91	P105/AN5/KI1	VCOE	O	Video data select (L: HDMI, H: Analog VIDEO)
92	P104/AN4/KI0	HPDET0	O	Hot Plug Detect control (IN1)
93	P103/AN3	HPDET1	O	Hot Plug Detect control (IN2)
94	P102/AN2	WP0	O	EDID1 E2PROM WP control (L: Normal operation, H: Writing)
95	P101/AN1	WP1	O	EDID2 E2PROM WP control (L: Normal operation, H: Writing)
96	AVSS	AVSS	–	GND
97	P100/AN0	DSD_OFF	O	Audio data control DSD data OFF (H: OFF)
98	VREF	VREF	–	Reference voltage 3.3V
99	AVcc	AVCC	–	Power supply 3.3V
100	P97/ADTRG/SIN4	HD_DI	I	Main controller communication (DATA IN)

■ PEG116A (MAIN CONTROL ASSY : IC101)

• Main Microcomputer

● Pin Arrangement (Top view)



A

B

C

D

E

F

● Pin Function

No.	Mark	Pin Name	I/O	Pin Function
1	VREF	Vref(5V)	–	Reference voltage (5V)
2	AVcc	Avcc(5V)	–	Power supply (5V)
3	P97/ADTRG/SIN4	HDMI / DSP DO	I	Data input for HDMI/DSP microcomputer
4	P96/ANEX1/SOUT4	HDMI / DSP DI	O/L	Data output for HDMI/DSP microcomputer
5	P95/ANEX0/CLK4	HDMI / DSP CLK	O/L	Clock output for HDMI/DSP microcomputer
6	P94/DA1/TB4IN	HDMI RDY	I	Ready input for HDMI microcomputer
7	P93/DA0/TB3IN	HDMI RST	O/L	Reset output for HDMI microcomputer
8	P92/TB2IN/SOUT3	DISP DI	O/L	Communication data output of the display microcomputer
9	P91/TB1IN/SIN3	DISP DO	I	Communication data input of the display microcomputer
10	P90/TB0IN/CLK3	DISP CLK	O/L	Communication clock output of the display microcomputer
11	P141	SB MUTE	O/L	MUTE for SB ch (L: MUTE)
12	P140	XFLAG (USB)	I	Error signal from the USB module
13	BYTE	L: 16 bit	–	Bus width setting of the external flash L= 16bit, H= 8bit
14	CNVss	Vss(EXP mode)	–	Shift from the single chip mode to the memory expansion mode Set to VCC at internal FLASH rewriting.
15	P87/XCIN	DSP RDY	I	Microcomputer communication Request input to the main microcomputer
16	P86/XCOUT	DSP RST	O/L	DSP controller communication
17	RESET	RESET	I	Reset input from the main microcomputer
18	XOUT	Xout	O	Connect a ceramic resonator (15.7 MHz)
19	Vss	Vss(GND)	–	Ground
20	XIN	Xin	I	Connect a ceramic resonator
21	Vcc1	Vcc1(5V)	–	Power supply Vcc1(5V)
22	P85/NMI	NMI	I	47k pull-up
23	P84/INT2	WAKEUP(AC PULSE)	(I)	AC pulse input
24	P83/INT1	TREQ(USB)	I	Communication request signal from the USB module
25	P82/INT0	1W WAKEUP	I	Display microcomputer communication
26	P81/TA4IN/U	RDS CK/XM LOW SPEED	I	(RDS model) CLOCK IN/(XM) Low speed Data Part
27	P80/TA4OUT/U	RDS DT/LINK ACTIVE(XM)	I	(RDS model) DATA IN/(XM) LINK active indicator
28	P77/TA3IN	OL DET	I	OVERLOAD detection (L: abnormal)
29	P76/TA3OUT	POFFINFO	O/L	Notify power off to DSP controller (an outlet comes off)
30	P75/TA2IN/W	DISP REQ	O/L	Display microcomputer communication
31	P74/TA2OUT/W	DISP RDY	I	Display microcomputer communication
32	P73/CTS2/RTS2/TA1IN/V	DISP RST	O/H	Display microcomputer communication
33	P72/CLK2/TA1OUT/V	USBCLK	I	Communication clock input with the USB module
34	P71/RxD2/SCL2/TA0IN/TB5IN	USBDO/XM Rx	I	Communication data input with the USB module/XM communication data input
35	P70/TXD2/SDA2/TA0OUT	USBDI/XM Tx	O/L	Communication data output with the USB module/XM communication data output
36	P67/TXD1/SDA1	232C TxD	O/L	RS-232C open
37	Vcc1	Vcc1(5V)	–	Power supply (5V)
38	P66/RxD1/SCL1	232C RxD	I	RS-232C open
39	Vss	Vss(GND)	–	Ground
40	P65/CLK1	JIG CLK	–	RS-232C open
41	P64/CTS1/RTS1/CTS0/CLKS1	232C CTS	O/L	RS-232C
42	P63/TXD0/SDA0	Tx(SR+/iPOD)	O/L	SR+/iPod communication data output
43	P62/RxD0/SCL0	Rx(SR+/iPOD)	I	SR+/iPod communication data input
44	P61/CLK0	LOW COMSUMPTION	O/L	AMUTE power ON/OFF (ON: H)
45	P60/CTS0/RTS0	S-DET	I	S-VIDEO detection (H)
46	P137	WAKE_UPB(XM)	I	For XMDT communication
47	P136	USB HREQ	O/L	Communication enabling signal to the USB module
48	P135	EXP ST	O/L	Expansion IC communication

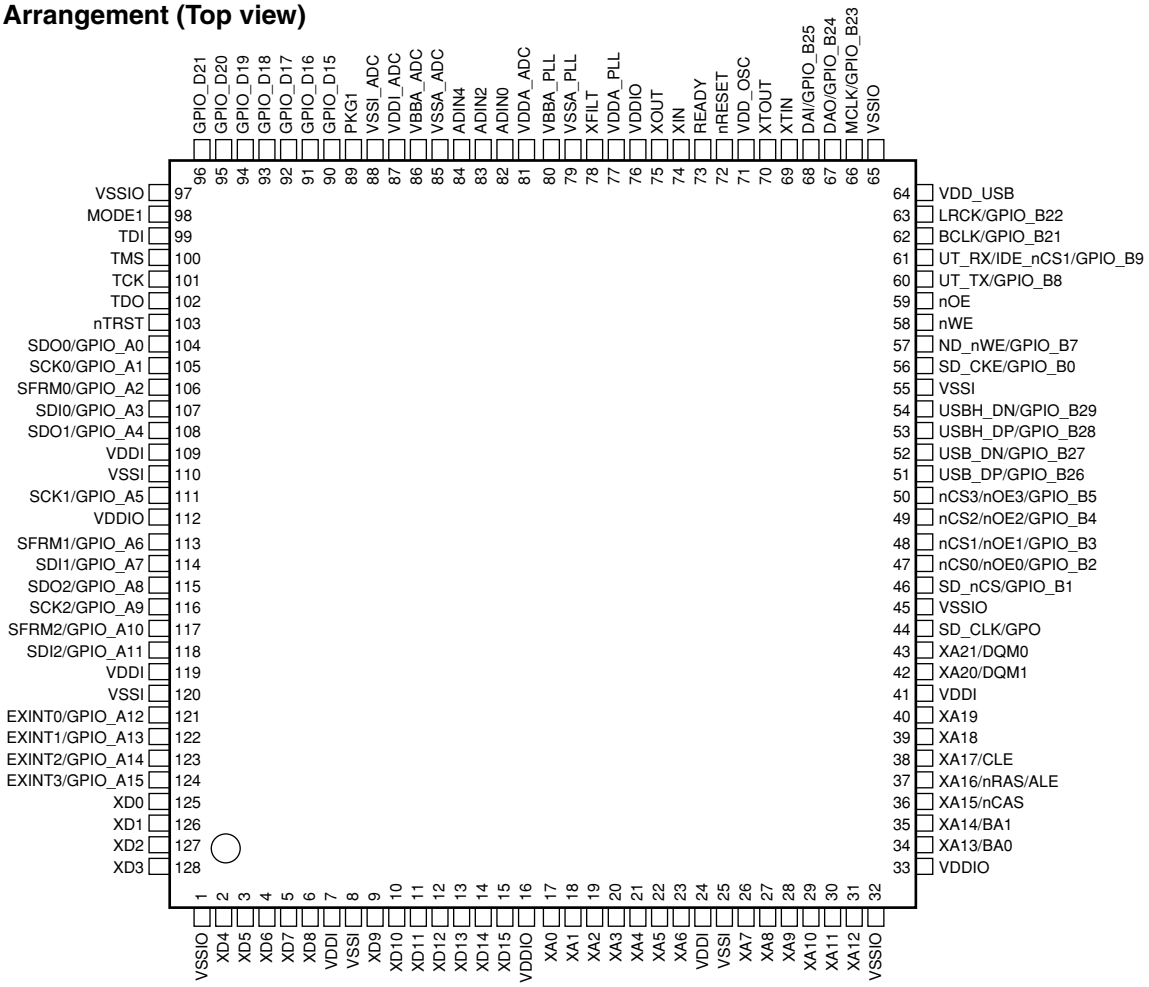
No.	Mark	Pin Name	I/O	Pin Function
49	P134	EXP OE	O/L	Expansion IC communication
50	P57/RDY/CLKOUT	Vcc(5V)	I	Power supply Vcc (5V)
51	P56/ALE	OPEN	O/L	NC (open at memory expansion mode)
52	P55/HOLD	Vcc(5V)	I	Power supply Vcc (5V)
53	P54/HLDA	OPEN	O/L	NC (open at memory expansion mode)
54	P133	OSD RST	O/L	OSD communication
55	P132	OSD CS	O/L	OSD communication
56	P131	OSD DT/EXP DT	O/L	OSD communication and expansion IC communication
57	P130	OSD CLK/EXP CLK	O/L	OSD communication and expansion IC communication
58	P53/BCLK	OPEN	O/L	NC (open at memory expansion mode)
59	P52/RD	RD	O/L	FLASH MEMORY I/F READ
60	P51/WRH/BHE	OPEN	O/L	FLASH MEMORY I/F WRITE
61	P50/WRL/WR	WR	O/L	FLASH MEMORY I/F WRITE
62	P127	PREGAIN	O/L	PREGAIN not used
63	P126	UART SW2	O/L	L: Select SR+ path, H: Select iPod or XM path
64	P125	UART SW1	O/L	L: Select DSP microcomputer path, H: Select HDMI microcomputer path
65	P47/CS3	EVOL DT2	O/L	Electronic VOL & function IC communication
66	P46/CS2	CS2	O/L	Electronic VOL & function IC communication
67	P45/CS1	EVOL CK	O/L	Electronic VOL & function IC communication
68	P44/CS0	CS0	O/L	FLASH MEMORY CE control
69	P43/A19	OPEN	O/L	FLASH MEMORY communication address output
70	P42/A18	A18	O/L	FLASH MEMORY communication address output
71	P41/A17	A17	O/L	FLASH MEMORY communication address output
72	P40/A16	A16	O/L	FLASH MEMORY communication address output
73	P37/A15	A15	O/L	FLASH MEMORY communication address output
74	P36/A14	A14	O/L	FLASH MEMORY communication address output
75	P35/A13	A13	O/L	FLASH MEMORY communication address output
76	P34/A12	A12	O/L	FLASH MEMORY communication address output
77	P33/A11	A11	O/L	FLASH MEMORY communication address output
78	P32/A10	A10	O/L	FLASH MEMORY communication address output
79	P31/A9	A9	O/L	FLASH MEMORY communication address output
80	P124	RY C/R	O/L	Center, surround SP relay (ON: H)
81	P123	RY B	O/L	SP-B relay (ON: H)
82	P122	RY A	O/L	SP-A relay (ON: H)
83	P121	RY HP	O/L	HP relay (ON: H)
84	P120	AC1 RELAY	O/L	AC relay (ON: H)
85	Vcc2	Vcc2(5V)	–	Power supply Vcc1 (5V)
86	P30/A8(/㉓/D7)	A8	O/L	FLASH MEMORY communication address output
87	Vss	Vss(GND)	–	Ground Vss(GND)
88	P27/AN27/A7(/D7/D6)	A7	O/L	FLASH MEMORY communication address output
89	P26/AN26/A6(/D6/D5)	A6	O/L	FLASH MEMORY communication address output
90	P25/AN25/A5(/D5/D4)	A5	O/L	FLASH MEMORY communication address output
91	P24/AN24/A4(/D4/D3)	A4	O/L	FLASH MEMORY communication address output
92	P23/AN23/A3(/D3/D2)	A3	O/L	FLASH MEMORY communication address output
93	P22/AN22/A2(/D2/D1)	A2	O/L	FLASH MEMORY communication address output
94	P21/AN21/A1(/D1/D0)	A1	O/L	FLASH MEMORY communication address output
95	P20/AN20/A0(/D0/㉙)	OPEN	O/L	FLASH MEMORY communication address output
96	P17/D15/INT5	D15	O/L	FLASH MEMORY communication data input/output

No.	Mark	Pin Name	I/O	Pin Function
97	P16/D14/INT4	D14	O/L	FLASH MEMORY communication data input/output
98	P15/D13/INT3	D13	O/L	FLASH MEMORY communication data input/output
99	P14/D12	D12	O/L	FLASH MEMORY communication data input/output
100	P13/D11	D11	O/L	FLASH MEMORY communication data input/output
101	P12/D10	D10	O/L	FLASH MEMORY communication data input/output
102	P11/D9	D9	O/L	FLASH MEMORY communication data input/output
103	P10/D8	D8	O/L	FLASH MEMORY communication data input/output
104	P07/AN07/D7	D7	O/L	FLASH MEMORY communication data input/output
105	P06/AN06/D6	D6	O/L	FLASH MEMORY communication data input/output
106	P05/AN05/D5	D5	O/L	FLASH MEMORY communication data input/output
107	P04/AN04/D4	D4	O/L	FLASH MEMORY communication data input/output
108	P03/AN03/D3	D3	O/L	FLASH MEMORY communication data input/output
109	P02/AN02/D2	D2	O/L	FLASH MEMORY communication data input/output
110	P01/AN01/D1	D1	O/L	FLASH MEMORY communication data input/output
111	P00/AN00/D0	D0	O/L	FLASH MEMORY communication data input/output
112	P117	NC	O/L	NC
113	P116	MRVOL DT	O/L	EVOL communication data for SUBROOM
114	P115	TUNER DI	O/L	TUNER module communication
115	P114	TUNER CLK	O/L	TUNER module communication
116	P113	TUNER DO	I	TUNER module communication
117	P112	TUNER CE	O/L	TUNER module communication
118	P111	AMUTE	O/L	AMUTE (L: MUTE, H: MUTE OFF)
119	P110	MRMUTE	O/L	MR MUTE (L: MUTE, H: MUTE OFF)
120	P107/AN7/KI3	DC PROTECT	I	DC abnormality detection (L detection)
121	P106/AN6/KI2	FAN STOP	I	FAN STOP detection (L at FAN rotation: abnormality)
122	P105/AN5/KI1	TEMP1	I	Temperature detection (H: high temperature)
123	P104/AN4/KI0	XM/ERR	I	XM Error
124	P103/AN3	WATT IN	I	(A/D) Voltage detection for limitter control
125	P102/AN2	SIMUKE2	I	(A/D) Destination distinction
126	P101/AN1	SIMUKE1	I	(A/D) Destination distinction
127	Avss	Avss(GND)	–	Ground Vss (GND)
128	P100/AN0	HDMI/ DSP REQ	O/L	REQ output for HDMI/DSP microcomputer

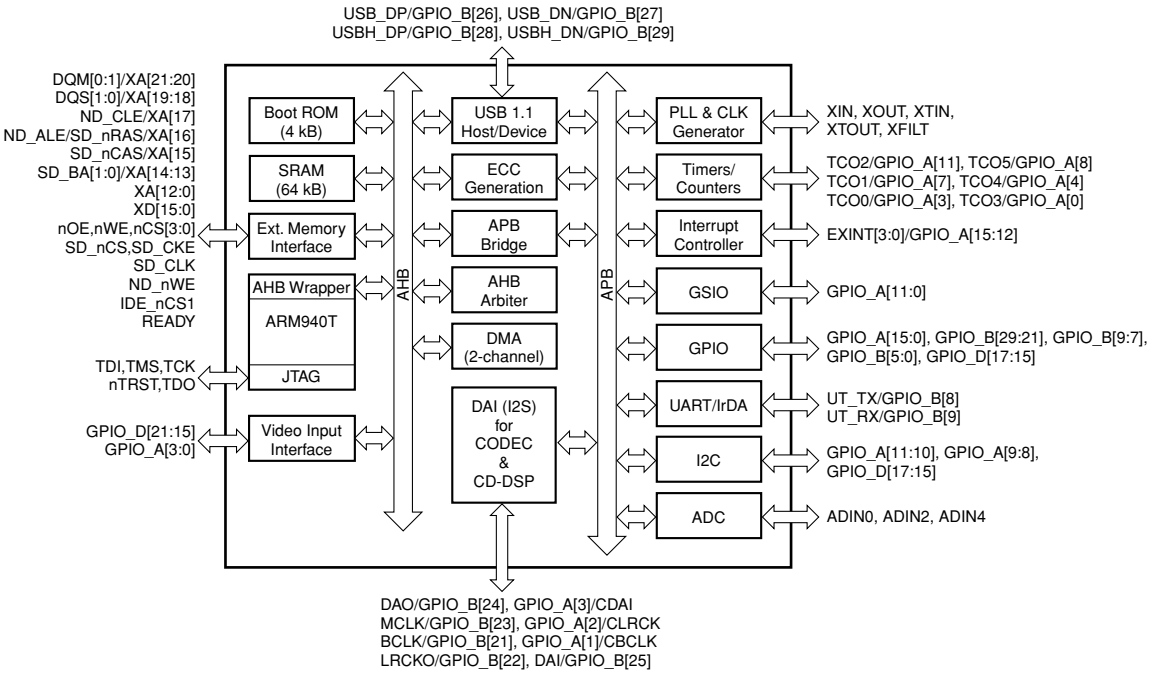
■ TCC760HC01-AG (USB ASSY : IC701)

• USB Media Control IC

● Pin Arrangement (Top view)



● Block Diagram



A

● Pin Functions

No.	Pin Name	I/O	Pin Function
1	VSSIO	–	Digital ground for I/O
2	XD4	I/O	External bus data bit [4]
3	XD5	I/O	External bus data bit [5]
4	XD6	I/O	External bus data bit [6]
5	XD7	I/O	External bus data bit [7]
6	XD8	I/O	External bus data bit [8]
7	VDDI	–	Digital power supply for internal core (1.8 V)
8	VSSI	–	Digital ground for internal
9	XD9	I/O	External bus data bit [9]
10	XD10	I/O	External bus data bit [10]
11	XD11	I/O	External bus data bit [11]
12	XD12	I/O	External bus data bit [12]
13	XD13	I/O	External bus data bit [13]
14	XD14	I/O	External bus data bit [14]
15	XD15	I/O	External bus data bit [15]
16	VDDIO	–	Digital power supply for I/O (1.8 V to 3.3 V)
17	XA0	I/O	External bus address bit [0]
18	XA1	I/O	External bus address bit [1]
19	XA2	I/O	External bus address bit [2]
20	XA3	I/O	External bus address bit [3]
21	XA4	I/O	External bus address bit [4]
22	XA5	I/O	External bus address bit [5]
23	XA6	I/O	External bus address bit [6]
24	VDDI	–	Digital power supply for internal core (1.8 V)
25	VSSI	–	Digital ground for internal
26	XA7	I/O	External bus address bit [7]
27	XA8	I/O	External bus address bit [8]
28	XA9	I/O	External bus address bit [9]
29	XA10	I/O	External bus address bit [10]
30	XA11	I/O	External bus address bit [11]
31	XA12	I/O	External bus address bit [12]
32	VSSIO	–	Digital ground for I/O
33	VDDIO	–	Digital power supply for I/O (1.8 V to 3.3 V)
34	XA13/BA0	I/O	External bus address bit [13] / SDRAM bank address 0
35	XA14/BA1	I/O	External bus address bit [14] / SDRAM bank address 1
36	XA15/nCAS	I/O	External bus address bit [15] / SDRAM CAS signal
37	XA16/nRAS/ALE	I/O	External bus address bit [16] / SDRAM RAS signal / ALE for NAND flash
38	XA17/CLE	I/O	External bus address bit [17] / CLE for NAND flash
39	XA18	I/O	External bus address bit [18]
40	XA19	I/O	External bus address bit [19]
41	VDDI	–	Digital power supply for internal core (1.8 V)
42	XA20/DQM1	I/O	External bus address bit [20] / Data I/O mask 1
43	XA21/DQM0	I/O	External bus address bit [21] / Data I/O mask 0
44	SD_CLK/GPO	I/O	SDRAM clock / GPO, SD_CLK can be used as a general purpose output.
45	VSSIO	–	Digital ground for I/O
46	SD_nCS/GPIO_B1	I/O	Chip select signal for SDRAM, active low / GPIO_B[1]
47	nCS0/nOE0/GPIO_B2	I/O	External bus chip select [0] / NAND flash output enable [0] / GPIO_B[2]
48	nCS1/nOE1/GPIO_B3	I/O	External bus chip select [1] / NAND flash output enable [1] / GPIO_B[3]
49	nCS2/nOE2/GPIO_B4	I/O	External bus chip select [2] / NAND flash output enable [2] / GPIO_B[4]
50	nCS3/nOE3/GPIO_B5	I/O	External bus chip select [3] / NAND flash output enable [3] / GPIO_B[5]

B C D E F

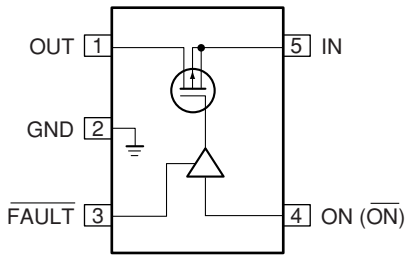
No.	Pin Name	I/O	Pin Function
51	USB_DP/GPIO_B26	I/O	USB function D+ signal / GPIO_B[26]
52	USB_DN/GPIO_B27	I/O	USB function D- signal / GPIO_B[27]
53	USBH_DP/GPIO_B28	I/O	USB host D+ signal / GPIO_B[28]
54	USBH_DN/GPIO_B29	I/O	USB host D- signal / GPIO_B[29]
55	VSSI	–	Digital ground for internal
56	SD_CKE/GPIO_B0	I/O	SDRAM clock enable signal, active high / GPIO_B[0]
57	ND_nWE/GPIO_B7	I/O	NAND flash WE, active low / GPIO_B[7]
58	nWE	I/O	Static memory write enable signal, active low
59	nOE	I/O	Static memory output enable signal, active low
60	UT_TX/GPIO_B8	I/O	UART or IrDA TX data / GPIO_B[8]
61	UT_RX/IDE_nCS1/GPIO_B9	I/O	UART or IrDA RX data / IDE chip select 1 / GPIO_B[9]
62	BCLK/GPIO_B21	I/O	I2S bit clock / GPIO_B[21]
63	LRCK/GPIO_B22	I/O	I2S word clock / GPIO_B[22]
64	VDD_USB	–	Power supply for USB I/O (3.3 V)
65	VSSIO	–	Digital ground for I/O
66	MCLK/GPIO_B23	I/O	I2S system clock / GPIO_B[23]
67	DAO/GPIO_B24	I/O	I2S digital audio data output / GPIO_B[24]
68	DAI/GPIO_B25	I/O	I2S digital audio data input / GPIO_B[25]
69	XTIN	I	Sub crystal oscillator input (32.768 kHz)
70	XTOUT	O	Sub crystal oscillator output (32.768 kHz)
71	VDD_OSC	–	Digital power supply for oscillators (1.8 V)
72	nRESET	I	System reset, active low
73	READY	I	Ready information from external device
74	XIN	I	Main crystal oscillator input for PLL (12 MHz)
75	XOUT	O	Main crystal oscillator output for PLL (12 MHz)
76	VDDIO	–	Digital power supply for I/O (1.8 V to 3.3 V)
77	VDDA_PLL	–	Analog and digital power supply for PLL (1.8 V)
78	XFILT	AO	PLL filter output
79	VSSA_PLL	–	Analog ground for PLL
80	VBBA_PLL	–	Analog ground for PLL
81	VDDA_ADC	–	Analog power supply for ADC (3.3 V)
82	ADIN0	AI	General purpose multi-channel ADC input 0
83	ADIN2	AI	General purpose multi-channel ADC input 2
84	ADIN4	AI	General purpose multi-channel ADC input 4
85	VSSA_ADC	–	Analog ground for ADC
86	VBBA_ADC	–	Analog ground for ADC
87	VDDI_ADC	–	Digital power supply for ADC (1.8 V)
88	VSSI_ADC	–	Digital ground for ADC
89	PKG1	I	Package ID 1, pull-up for normal operation
90	GPIO_D15	I/O	GPIO_D[15]
91	GPIO_D16	I/O	GPIO_D[16]
92	GPIO_D17	I/O	GPIO_D[17]
93	GPIO_D18	I/O	GPIO_D[18]
94	GPIO_D19	I/O	GPIO_D[19]
95	GPIO_D20	I/O	GPIO_D[20]
96	GPIO_D21	I/O	GPIO_D[21]
97	VSSIO	–	Digital ground for I/O
98	MODE1	I	Mode select input 1, Pull-down for normal operation.
99	TDI	I	JTAG serial data input for ARM940T
100	TMS	I	JTAG test mode select for ARM940T

No.	Pin Name	I/O	Pin Function
101	TCK	I	JTAG test clock for ARM940T
102	TDO	I/O	JTAG serial data output for ARM940T
103	nTRST	I	JTAG reset signal for ARM940T, active low
104	SDO0/GPIO_A0	I/O	Serial data output 0 / GPIO_A[0]
105	SCK0/GPIO_A1	I/O	Serial clock input 0 / GPIO_A[1]
106	SFRM0/GPIO_A2	I/O	Serial frame 0 / GPIO_A[2]
107	SDI0/GPIO_A3	I/O	Serial data input 0 / GPIO_A[3]
108	SDO1/GPIO_A4	I/O	Serial data output 1 / GPIO_A[4]
109	VDDI	–	Digital power supply for internal core (1.8 V)
110	VSSI	–	Digital ground for internal
111	SCK1/GPIO_A5	I/O	Serial clock input 1 / GPIO_A[5]
112	VDDIO	–	Digital power supply for I/O (1.8 V to 3.3 V)
113	SFRM1/GPIO_A6	I/O	Serial frame 1 / GPIO_A[6]
114	SDI1/GPIO_A7	I/O	Serial data input 1 / GPIO_A[7]
115	SDO2/GPIO_A8	I/O	Serial data output 2 / GPIO_A[8]
116	SCK2/GPIO_A9	I/O	Serial clock input 2 / GPIO_A[9]
117	SFRM2/GPIO_A10	I/O	Serial frame 2 / GPIO_A[10]
118	SDI2/GPIO_A11	I/O	Serial data input 2 / GPIO_A[11]
119	VDDI	–	Digital power supply for internal core (1.8 V)
120	VSSI	–	Digital ground for internal
121	EXINT0/GPIO_A12	I/O	External interrupt request [0] / GPIO_A[12]
122	EXINT1/GPIO_A13	I/O	External interrupt request [1] / GPIO_A[13]
123	EXINT2/GPIO_A14	I/O	External interrupt request [2] / GPIO_A[14]
124	EXINT3/GPIO_A15	I/O	External interrupt request [3] / GPIO_A[15]
125	XD0	I/O	External bus data bit [0]
126	XD1	I/O	External bus data bit [1]
127	XD2	I/O	External bus data bit [2]
128	XD3	I/O	External bus data bit [3]

■ AAT4618IGV-0.5-1 (USB ASSY : IC771)

• Load Switching IC

● Pin Arrangement (Top view)

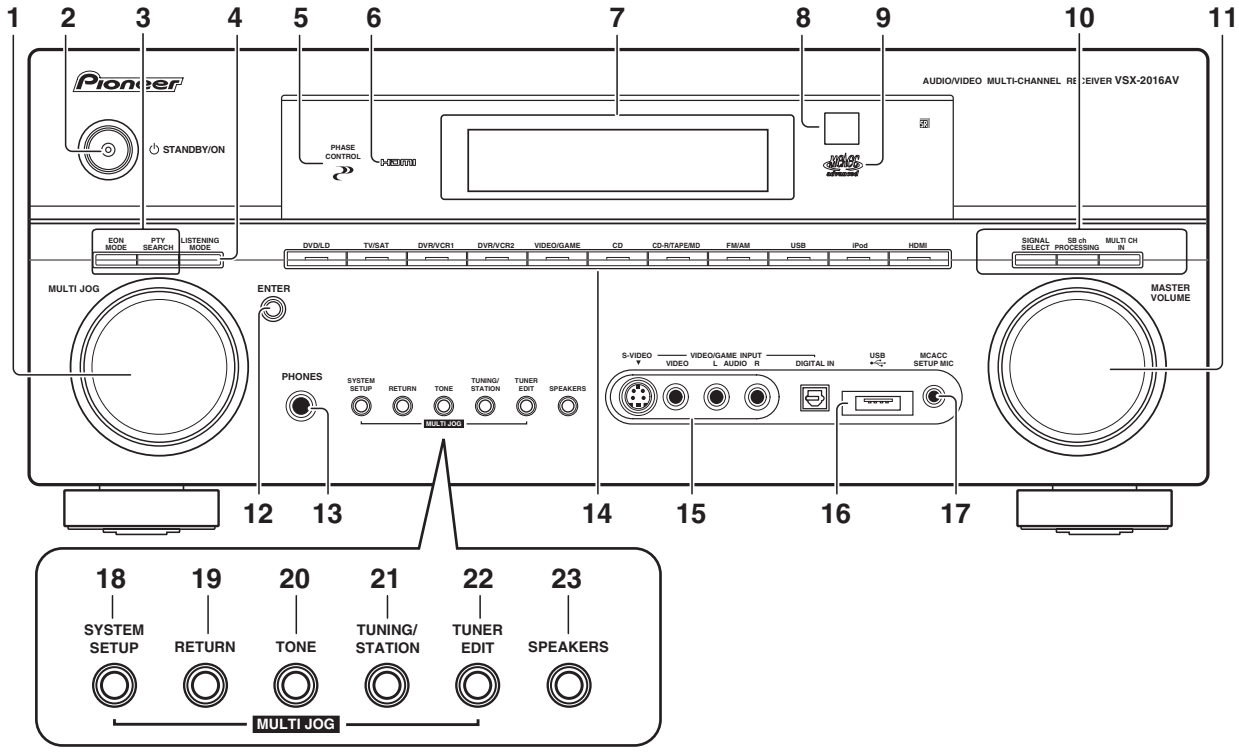


● Pin Function

No.	Pin Name	I/O	Pin Function
1	OUT	O	P-channel MOS FET drain
2	GND	–	Ground
3	$\overline{\text{FAULT}}$	O	Open-drain $\overline{\text{FAULT}}$ output
4	ON ($\overline{\text{ON}}$)	I	Enable input: 4618 active low, 4618- active high
5	IN	I	P-channel MOS FET source

8. PANEL FACILITIES

Front panel (VSX-2016AV-S/HYXJ5)



1 MULTI JOG dial
Use the **MULTI JOG** dial to select various settings and menu options.

2 ⏻ STANDBY/ON
Switches the receiver between on and standby. Power indicator lights when the receiver is on.

3 EON MODE
Use to search for programs that are broadcasting traffic or news information.

PTY SEARCH
Use this button to search for RDS program types.

4 LISTENING MODE
Use with the **MULTI JOG** dial to select the various listening modes.

5 PHASE CONTROL indicator
Lights when Phase Control is switched on.

6 HDMI indicator
Blinks when connecting an HDMI-equipped component; lights when the component is connected.

7 Character display

8 Remote sensor
Receives the signals from the remote control.

9 MCACC indicator
Lights when one of the MCACC presets is selected.

10 SIGNAL SELECT
Use to select an input signal.

SBch PROCESSING - Selects the surround back channel mode or virtual surround back mode.

MULTI CH IN - Press to select the multichannel analog inputs.

11 MASTER VOLUME dial

12 ENTER

13 PHONES jack
Use to connect headphones. When the headphones are connected, there is no sound output from the speakers.

14 Input source buttons
Press to select an input source.

15 VIDEO/GAME INPUT

16 USB interface
Connect a USB audio device for playback.

17 MCACC SETUP MIC jack
Use to connect the supplied microphone.

18 SYSTEM SETUP
Press to access the System Setup menu.

19 RETURN
Press to confirm and exit the current menu screen.

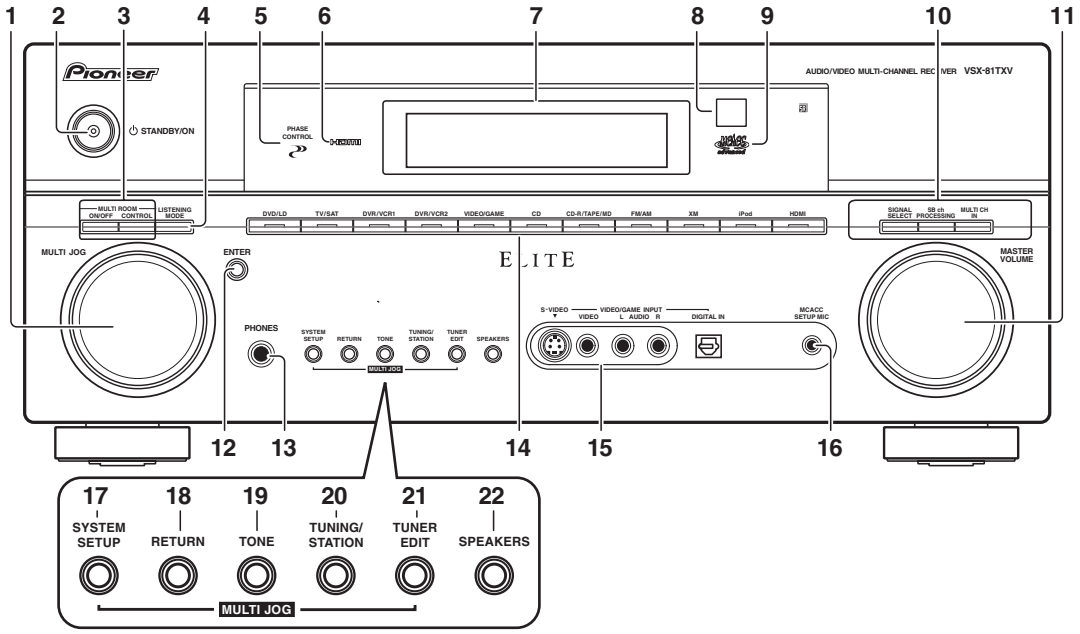
20 TONE
Press this button to access the bass and treble controls, which you can then adjust with the **MULTI JOG** dial.

21 TUNING/STATION
Use to find radio frequencies and to select preset stations.

22 TUNER EDIT
Use with the **MULTI JOG** dial to memorize and name stations for recall.

23 SPEAKERS
Use to change the speaker system.

Front panel (VSX-81TXV, VSX-81TXV-S, VSX-9110TXV-K)



1 MULTI JOG dial
Use the **MULTI JOG** dial to select various settings and menu options.

2 STANDBY/ON
Switches the receiver between on and standby. Power indicator lights when the receiver is on.

3 MULTI ROOM controls
If youíve made multi-room connections (see Multi-room listening) use these controls to control the sub room from the main room (see Using the multi-room controls).

4 LISTENING MODE
Use with the **MULTI JOG** dial to select the various listening modes.

5 PHASE CONTROL indicator
Lights when Phase Control is switched on.

6 HDMI indicator
Blinks when connecting an HDMI-equipped component; lights when the component is connected.

7 Character display
See Display.

8 Remote sensor
Receives the signals from the remote control (see Operating range of remote control unit).

9 MCACC indicator
Lights when one of the MCACC presets is selected.

10 SIGNAL SELECT
Use to select an input signal.
SBch PROCESSING – Selects the surround back channel mode or virtual surround back mode.
MULTI CH IN – Press to select the multichannel analog inputs.

11 MASTER VOLUME dial

12 ENTER

13 PHONES jack
Use to connect headphones. When the headphones are connected, there is no sound output from the speakers.

14 Input source buttons
Press to select an input source.

15 VIDEO/GAME INPUT
See Connecting a component to the front panel inputs.

16 MCACC SETUP MIC jack
Use to connect the supplied microphone.

17 SYSTEM SETUP
Press to access the System Setup menu.

18 RETURN
Press to confirm and exit the current menu screen.

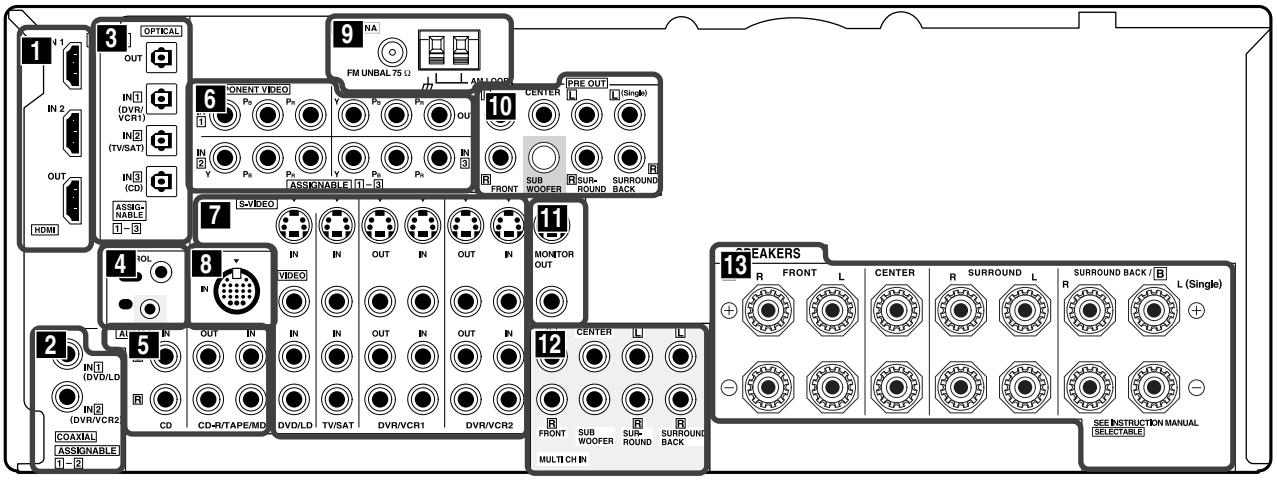
19 TONE
Press this button to access the bass and treble controls, which you can then adjust with the **MULTI JOG** dial.

20 TUNING/STATION
Use to find radio frequencies and to select preset stations.

21 TUNER EDIT
Use with the **MULTI JOG** dial to memorize and name stations for recall.

22 SPEAKERS
Use to change the speaker system.

Rear panel (VSX-2016AV-S/HYXJ5)



Caution

- Before making or changing the connections, switch off the power and disconnect the power cord from the power outlet. Plugging in should be the final step.

1 HDMI connectors (x3)
Two inputs and one output for high-quality audio/video connection to compatible HDMI devices.
→ Connecting using HDMI.

2 Coaxial digital audio inputs (x2)
Use for digital audio sources, including DVD players/recorders, digital satellite receivers, CD players, etc.

3 Optical digital audio output / input(s) (x4)
Use the **OUT** jack for recording to a CD or MiniDisc recorder.
→ Connecting digital audio sources.
Use the **IN** jacks for digital audio sources, including DVD players/recorders, digital satellite receivers, CD players, etc.

4 Control input/output
Use to connect other Pioneer components so that you can control all your equipment from a single IR remote sensor.
→ Operating other Pioneer components with this unit's sensor.

5 Stereo analog audio source inputs/(outputs) (x3)
Use for connection to audio sources such as CD players, tape decks, turntables, etc.
→ Connecting analog audio sources.

6 Component video connections (x4)
Use the inputs to connect any video source that has component video output, such as a DVD recorder. Use the output for connection to a monitor or TV.
→ Using the component video jacks.

7 Audio/video source inputs/(outputs) (x6)
Use for connection to audio/visual sources, such as DVD players/recorders, VCRs, etc. Each set of inputs has jacks for composite video, S-video and stereo analog audio.
→ Connecting a DVD/HDD recorder, VCR and other video sources.

8 iPod input terminal
Use to connect your Apple iPod as an audio source.
→ Connecting an iPod.

9 AM and FM antenna terminals
Use to connect indoor or outdoor antennas for radio broadcasts.
→ Connecting antennas.

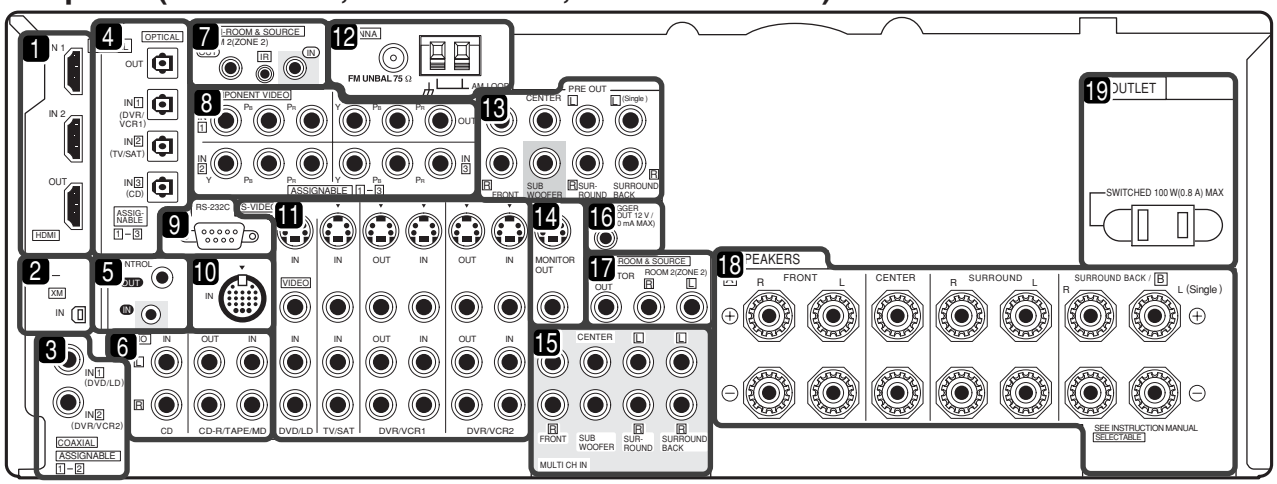
10 Multichannel pre-amplifier outputs
Use to connect separate amplifiers for front, center, surround, surround back and subwoofer channels.
→ Connecting additional amplifiers.

11 Composite and S-video monitor outputs
Use to connect monitors and TVs.
→ Connecting your TV and DVD recorder.

12 Multichannel analog audio inputs
7.1 channel inputs for connection to a DVD player with multichannel analog outputs.
→ Connecting the multichannel analog inputs.

13 Speaker terminals
Use for connection to the main front, center, surround and surround back speakers.
→ Installing your speaker system.

Rear panel (VSX-81TXV, VSX-81TXV-S, VSX-9110TXV-K)



VSX-81TXV, VSX-81TXV-S, VSX-9110TXV-K

Caution

- Before making or changing the connections, switch off the power and disconnect the power cord from the power outlet. Plugging in should be the final step.

1 HDMI connectors (x3)
Two inputs and one output for high-quality audio/video connection to compatible HDMI devices.
→ Connecting using HDMI.

2 XM Radio input
→ See Using XM Radio.

3 Coaxial digital audio inputs (x2)
Use for digital audio sources, including DVD players/recorders, digital satellite receivers, CD players, etc.
→ See also The Input Setup menu to assign the inputs.

4 Optical digital audio output / input(s) (x4)
Use the **OUT** jack for recording to a CD or MiniDisc recorder. → Connecting digital audio sources.
Use the **IN** jacks for digital audio sources, including DVD players/recorders, digital satellite receivers, CD players, etc.
→ See also The Input Setup menu to assign the inputs.

5 Control input/output
Use to connect other Pioneer components so that you can control all your equipment from a single IR remote sensor.
→ Operating other Pioneer components with this unit's sensor.

6 Stereo analog audio source inputs/(outputs) (x3)
Use for connection to audio sources such as CD players, tape decks, turntables, etc.
→ Connecting analog audio sources.

7 Remote input (multi-room and source)
Use for connection to an external remote control sensor for use in a multi-room setup, for example.
→ Connecting an IR receiver.

8 Component video connections (x4)
Use the inputs to connect any video source that has component video output, such as a DVD recorder. Use the output for connection to a monitor or TV.
→ Using the component video jacks.

9 RS-232C connector
Use for connection to a PC for graphical output when using Advanced MCACC.
→ Connecting a PC for Advanced MCACC output.

10 iPod input terminal
Use to connect your Apple iPod as an audio source.
→ Connecting an iPod.

11 Audio/video source inputs/(outputs) (x6)
Use for connection to audio/visual sources, such as DVD players/recorders, VCRs, etc. Each set of inputs has jacks for composite video, S-video and stereo analog audio.
→ Connecting a DVD/HDD recorder, VCR and other video sources.

12 AM and FM antenna terminals
Use to connect indoor or outdoor antennas for radio broadcasts.
→ Connecting antennas.

13 Multichannel pre-amplifier outputs
Use to connect separate amplifiers for front, center, surround, surround back and subwoofer channels.
→ Connecting additional amplifiers (see also Installing your speaker system for powered subwoofer connection).

14 Composite and S-video monitor outputs
Use to connect monitors and TVs.
→ Connecting your TV and DVD player.

15 Multichannel analog audio inputs
7.1 channel inputs for connection to a DVD player with multichannel analog outputs.
→ Connecting the multichannel analog inputs.

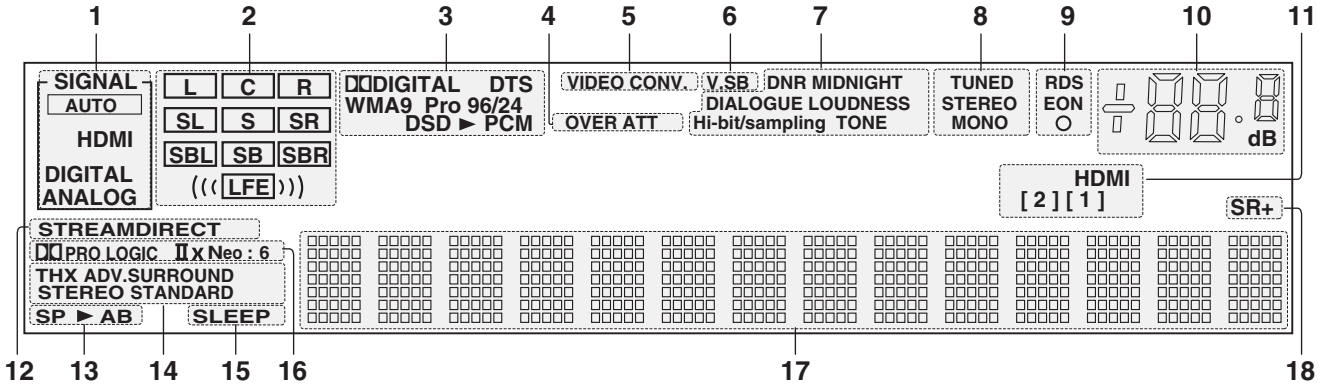
16 12V trigger jack (total 50 mA max.)
Use to switch components in your system on and off according to the input function of the receiver.
→ Switching components on and off using the 12 volt trigger.

17 Multi-room and source outputs
Use to connect a second amplifier in a separate room.
→ Multi-room listening.

18 Speaker terminals
Use for connection to the main front, center, surround and surround back speakers.
→ Installing your speaker system.

19 Switched AC power outlet (100 W/0.8 A max.)
Use to power another component in the system. Power to the outlet switches on and off with the receiver.
→ AC outlet.

Display (VSX-2016AV-S/HYXJ5)



1 SIGNAL indicators
Light to indicate the currently selected input signal.
AUTO lights when the receiver is set to select the input signal automatically.

2 Program format indicators
These change according to which channels are active in digital sources.
- **L** - Left front channel
- **C** - Center channel
- **R** - Right front channel
- **SL** - Left surround channel
- **S** - Surround channel (mono)
- **SR** - Right surround channel
- **SBL** - Left surround back channel
- **SB** - Surround back channel (mono)
- **SBR** - Right surround back channel
- **LFE** - Low frequency effects channel (the **((( )))** indicators light when an LFE signal is being input)

3 Digital format indicators
Light when a signal encoded in the corresponding format is detected (**DSD ► PCM** lights during DSD (Direct Stream Digital) to PCM conversion with SACDs).

4 OVER / ATT
OVER lights to indicate that the level of an analog source is too high. **ATT** lights when you use the attenuator (**ANALOG ATT**) to reduce it.

5 VIDEO CONV.
Lights when digital video conversion is enabled.

6 V.SB
Lights during Virtual surround back processing.

7 Sound processing indicators
Light according to the active AV parameter(s).

8 TUNER indicators
TUNED - Lights when a broadcast is being received.
STEREO - Lights when a stereo FM broadcast is being received in auto stereo mode.
MONO - Lights when the mono mode is set using the **MPX** button.

9 EON / RDS indicators
EON - Lights when the EON mode is set (flashes during EON reception). The ○ indicator lights when the current station carries the EON service.
RDS - Lights when an RDS broadcast is received.

10 Master volume level

11 HDMI connection indicators
Light to indicate the HDMI input currently selected.

12 STREAM DIRECT
Lights when Direct / Pure Direct is selected.

13 Speaker indicators
Indicate the current speaker system, **A** and/or **B**.

14 Listening mode indicators
THX - Lights when a Home THX mode is selected.
ADV. SURROUND - Lights when an Advanced Surround mode has been selected.
STEREO - Lights when stereo listening is switched on.
STANDARD - Lights when a Standard Surround mode is switched on.

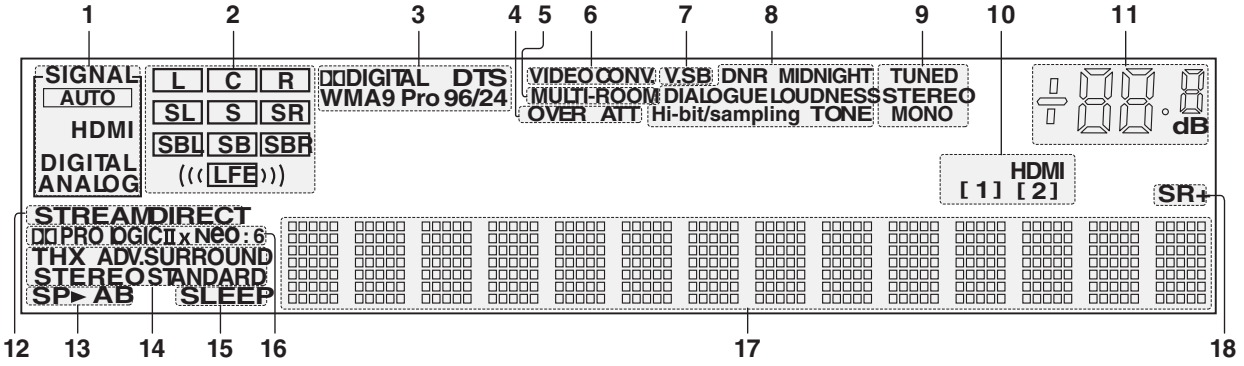
15 SLEEP
Lights when the receiver is in sleep mode.

16 Matrix decoding format indicators
PRO LOGIC IIx - This lights to indicate Pro Logic II / Pro Logic IIx decoding.
Neo:6 - When one of the Neo:6 modes of the receiver is on, this lights to indicate Neo:6 processing.

17 Character display
Displays various system information.

18 SR+
Lights when the SR+ mode is switched on.

Display (VSX-81TXV, VSX-81TXV-S, VSX-9110TXV-K)



1 SIGNAL indicators
Light to indicate the currently selected input signal.
AUTO lights when the receiver is set to select the input signal automatically.

2 Program format indicators
These change according to which channels are active in digital sources.
L – Left front channel
C – Center channel
R – Right front channel
SL – Left surround channel
S – Surround channel (mono)
SR – Right surround channel
SBL – Left surround back channel
SB – Surround back channel (mono)
SBR – Right surround back channel
LFE – Low frequency effects channel (the **((( )))** indicators light when an LFE signal is being input)

3 Digital format indicators
Light when a signal encoded in the corresponding format is detected.

4 OVER / ATT
OVER lights to indicate that the level of an analog source is too high. **ATT** lights when you use the attenuator (**ANALOG ATT**) to reduce0 it.

5 MULTI-ROOM
Lights when the multi-room feature is active.

6 VIDEO CONV.
Lights when digital video conversion is enabled.

7 V.SB
Lights during Virtual surround back processing.

8 Sound processing indicators
Light according to the active AV parameter(s).

9 TUNER indicators
TUNED – Lights when a broadcast is being received.
STEREO – Lights when a stereo FM broadcast is being received in auto stereo mode.
MONO – Lights when the mono mode is set using the **MPX** button.

10 HDMI connection indicators
Light to indicate the HDMI input currently selected.

11 Master volume level

12 STREAM DIRECT
Lights when Direct / Pure Direct is selected.

13 Speaker indicators
Indicate the current speaker system, **A** and/or **B**.

14 Listening mode indicators
THX – Lights when a Home THX mode is selected.
ADV. SURROUND – Lights when an Advanced Surround mode has been selected.
STEREO – Lights when stereo listening is switched on (see Listening in stereo).
STANDARD – Lights when a Standard Surround mode is switched on (see Listening in surround sound).

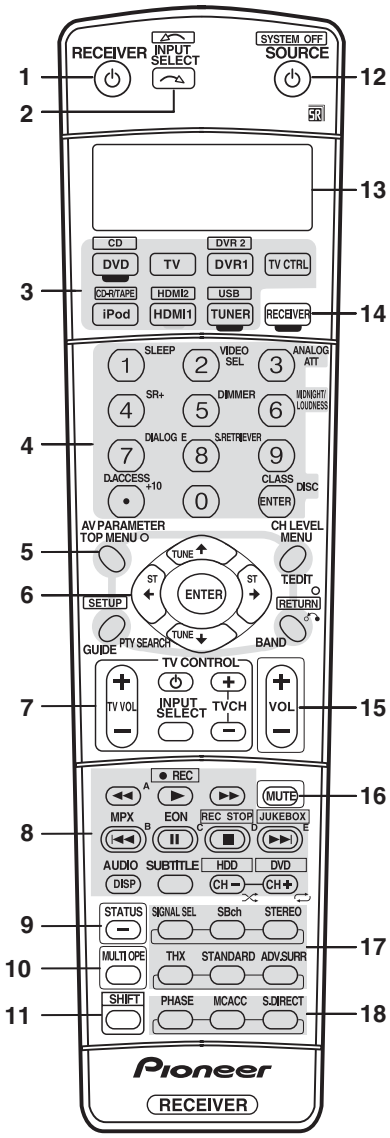
15 SLEEP
Lights when the receiver is in sleep mode.

16 Matrix decoding format indicators
PRO LOGIC IIx – This lights to indicate Pro Logic II / Pro Logic IIx decoding.
Neo:6 – When one of the Neo:6 modes of the receiver is on, this lights to indicate Neo:6 processing.

17 Character display
Displays various system information.

18 SR+
Lights when the SR+ mode is switched on.

Remote control (VSX-2016AV-S/HYXJ5)



The remote has been conveniently color-coded according to component control using the following system (press the corresponding input source button to access):

- **Green** - Receiver controls (see below)
- **Red** - DVD controls
- **Blue** - Tuner controls
- **White** - Other controls

1 RECEIVER ⏻

This switches between standby and on for this receiver.

2 INPUT SELECT

Use to select the input source (use **SHIFT** for **INPUT SELECT**).

3 Input source buttons

Press to select control of other components.

4 Number buttons and other receiver/component controls

Use the number buttons to directly select a radio frequency or the tracks on a CD, DVD, etc.

DISC (ENTER) can be used to enter commands for TV or DTV, and also to select a disc in a multi-CD player.

Press **RECEIVER** first to access:

SLEEP - Use to put the receiver in sleep mode and select the amount of time before sleep.

VIDEO SEL - Press repeatedly to select the video source.

ANALOG ATT - Attenuates (lowers) the level of an analog input signal to prevent distortion.

SR+ - Switches the SR+ mode on/off.

DIMMER - Dims or brightens the display.

MIDNIGHT/LOUDNESS - Use Midnight when listening to movie soundtracks at low volume. Use Loudness to boost the bass and treble at low volume.

DIALOG E - Use to make dialog stand out when watching TV or a movie.

S. RETRIEVER - Press to restore CD quality sound to compressed audio sources.

Press **TUNER** first to access:

D.ACCESS - After pressing, you can access a radio station directly using the number buttons.

CLASS - Switches between the three banks (classes) of radio station presets.

5 Tuner/component control buttons/SETUP

These button controls can be accessed after you have selected the corresponding input source button (**DVD**, **DVR1**, **TV** , etc.). Press **RECEIVER** first to access the following controls:

AV PARAMETER - Use to access the AV options.

SETUP - Use to access the System Setup menu.

CH LEVEL - Press repeatedly to select a channel, then use ⬅/➡ to adjust the level.

RETURN - Press to confirm and exit the current menu screen (also use to return to the previous menu with DVDs or to select closed captioning with DTV).

6 ⬅➡⬇⬆ (TUNE/ST) / ENTER

Use the arrow buttons when setting up your surround sound system and the AV options. Also used to control DVD menus/options and for deck 1 of a double cassette deck player. Use the **TUNE** ⬆/⬇ buttons to find radio frequencies and use **ST** ⬅/➡ to find preset stations.

7 TV CONTROL buttons

These buttons are dedicated to control the TV assigned to the **TV CTRL** button. Thus if you only have one TV to hook up to this system assign it to the **TV CTRL** input source button. If you have two TVs, assign the main TV to the **TV CTRL** button.

TV ⏻ - Use to turn on/off the power of the TV.

TV VOL +/– - Use to adjust the volume on your TV.

INPUT SELECT - Use to select the TV input signal.

TV CH +/– - Use to select channels.

8 Component control buttons
The main buttons (►, ■, etc.) are used to control a component after you have selected it using the input source buttons.
The controls above these buttons can be accessed after you have selected the corresponding input source button (for example **DVD**, **DVR1** or **TV**). The following controls can be accessed when listening to the built-in tuner:
MPX - Switches between stereo and mono reception of FM broadcasts. If the signal is weak then switching to mono will improve the sound quality.
DISP - Switches between named station presets and radio frequencies. Also used to display RDS information.
EON - Use to search for programs that are broadcasting traffic or news information.

9 STATUS
Press to check selected receiver settings.

10 MULTI OPE
Use this button to perform multi operations.

11 SHIFT
Press to access the controls outlined in white boxes (for example, **INPUT SELECT**), or to display the currently selected input source in the remote control LCD.

12 SOURCE ⏻
Press to turn on/off other components connected to the receiver.

13 Character display (LCD)
This display shows information when transmitting control signals.
The following commands are shown when you're setting the remote to control other components:
SETUP - Indicates the setup mode, from which you choose the options below.
PRESET - See Selecting preset codes directly.
LEARNING - See Programming signals from other remote controls.
MULTI OP - See Multi Operation and System Off.
SYS OFF - See Multi Operation and System Off.
DIRECT F - See Direct function.
RENAME - See Renaming input source names.
ERASE - See Erasing one of the remote control button settings.
RESET - See Resetting the remote control presets.
READ ID - See Confirming preset codes.

14 RECEIVER
Switches the remote to control the receiver (used to select the green commands above the number buttons (**ANALOG ATT**, etc)). Also use this button to set up surround sound.

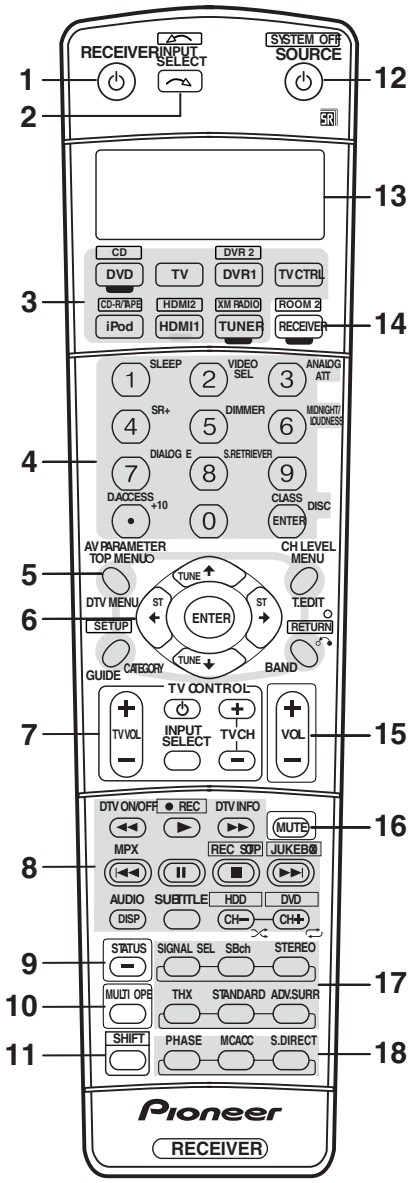
15 VOL +/-
Use to set the listening volume.

16 MUTE
Mutes the sound or restores the sound if it has been muted (adjusting the volume also restores the sound).

17 Receiver controls
SIGNAL SEL - Use to select an input signal.
SBch - Use to select the surround/virtual back channel mode.
STEREO - Switches between direct and stereo playback. Direct playback bypasses the tone controls and any other signal processing for the most accurate reproduction of a source.
THX - Press to select a Home THX listening mode.
STANDARD - Press for Standard decoding and to switch between the various Pro Logic IIx and Neo: 6 options.
ADV.SURR - Use to switch between the various surround modes.

18 PHASE - Press to switch on/off Phase Control.
MCACC - Press to switch between MCACC presets.
S.DIRECT - Press to select Auto Surround or Stream Direct listening.

Remote control (VSX-81TXV, VSX-81TXV-S, VSX-9110TXV-K)



The remote has been conveniently color-coded according to component control using the following system (press the corresponding input source button to access):

- **Green** – Receiver controls (see below)
- **Red** – DVD controls
- **Blue** – Tuner/XM Radio controls
- **Yellow** – iPod controls
- **White** – Other controls

1 RECEIVER ⏻
This switches between standby and on for this receiver.

2 INPUT SELECT
Use to select the input source (use **SHIFT** for **INPUT SELECT**).

3 Input source buttons
Press to select control of other components (see Controlling the rest of your system).

4 Number buttons and other receiver/component controls
Use the number buttons to directly select a radio frequency or the tracks on a CD, DVD, etc.
DISC (ENTER) can be used to enter commands for TV or DTV, and also to select a disc in a multi-CD player.
Press **RECEIVER** first to access:

SLEEP – Use to put the receiver in sleep mode and select the amount of time before sleep.
VIDEO SEL – Press repeatedly to select the video source.
ANALOG ATT – Attenuates (lowers) the level of an analog input signal to prevent distortion.
SR+ – Switches the SR+ mode on/off.
DIMMER – Dims or brightens the display.
MIDNIGHT/LOUDNESS – Use Midnight when listening to movie soundtracks at low volume. Use Loudness to boost the bass and treble at low volume.
DIALOG E – Use to make dialog stand out when watching TV or a movie.
S. RETRIEVER – Press to restore CD quality sound to compressed audio sources.

Press **TUNER** first to access:

D.ACCESS – After pressing, you can access a radio station directly using the number buttons.
CLASS – Switches between the three banks (classes) of radio station presets.

5 Tuner/component control buttons/SETUP
These button controls can be accessed after you have selected the corresponding input source button (**DVD**, **DVR1**, **TV**, etc.). The **BAND** and **T.EDIT** tuner controls are explained from. Press **RECEIVER** first to access the following controls:

AV PARAMETER – Use to access the AV options.
SETUP – Use to access the System Setup menu.
CH LEVEL – Press repeatedly to select a channel, then use ⬅/➡ to adjust the level.
RETURN – Press to confirm and exit the current menu screen (also use to return to the previous menu with DVDs or to select closed captioning with DTV).

6 ⬅ ➡ ⬇ ⬆ (TUNE/ST) /ENTER
Use the arrow buttons when setting up your surround sound system and the AV options.
Also used to control DVD menus/options and for deck 1 of a double cassette deck player. Use the **TUNE** ⬇/⬆ buttons to find radio frequencies and use **ST** ⬅/➡ to find preset stations.

7 TV CONTROL buttons
These buttons are dedicated to control the TV assigned to the **TV CTRL** button. Thus if you only have one TV to hook up to this system assign it to the **TV CTRL** input source button. If you have two TVs, assign the main TV to the **TV CTRL** button.
TV ⏻ – Use to turn on/off the power of the TV.
TV VOL +/– – Use to adjust the volume on your TV.
INPUT SELECT – Use to select the TV input signal.
TV CH +/– – Use to select channels.

A

8 Component control buttons

The main buttons (▶,■, etc.) are used to control a component after you have selected it using the input source buttons.

The controls above these buttons can be accessed after you have selected the corresponding input source button (for example **DVD**, **DVR1** or **TV**). The following controls can be accessed when listening to the built-in tuner:

MPX – Switches between stereo and mono reception of FM broadcasts. If the signal is weak then switching to mono will improve the sound quality.

DISP – Switches between named station presets and radio frequencies.

B

9 STATUS

Press to check selected receiver settings.

10 MULTI OPE

Use this button to perform multi operations.

11 SHIFT

Press to access the controls outlined in white boxes (for example, **INPUT SELECT**), or to display the currently selected input source in the remote control LCD.

C

12 SOURCE ⏻

Press to turn on/off other components connected to the receiver.

13 Character display (LCD)

This display shows information when transmitting control signals.

The following commands are shown when you're setting the remote to control other components (see Controlling the rest of your system):

D

SETUP – Indicates the setup mode, from which you choose the options below

PRESET – See Selecting preset codes directly.

LEARNING – See Programming signals from other remote controls.

MULTI OP – See Multi Operation and System Off.

SYS OFF – See Multi Operation and System Off.

DIRECT F – See Direct function.

RENAME – See Renaming input source names.

ERASE – See Erasing one of the remote control button settings.

E

RESET – See Resetting the remote control presets.

READ ID – See Confirming preset codes.

14 RECEIVER

Switches the remote to control the receiver (used to select the green commands above the number buttons (**ANALOG ATT**, etc)). Also use this button to set up surround sound . With **SHIFT**, this selects the multi-room control.

15 VOL +/–

Use to set the listening volume.

16 MUTE

Mutes the sound or restores the sound if it has been muted (adjusting the volume also restores the sound).

17 Receiver controls

SIGNAL SEL – Use to select an input signal.

SBch – Use to select the surround/virtual back channel mode.

STEREO – Switches between direct and stereo playback. Direct playback bypasses the tone controls and any other signal processing for the most accurate reproduction of a source.

THX – Press to select a Home THX listening mode.

STANDARD – Press for Standard decoding and to switch between the various DD Pro Logic IIx and Neo:6 options.

ADV.SURR – Use to switch between the various surround modes**.**

18 PHASE – Press to switch on/off Phase Control.

MCACC – Press to switch between MCACC presets.

S.DIRECT – Press to select Auto Surround or Stream Direct listening.

F

A

B

C

D

E

F

■ Jigs list

Name	Jig No.	Remarks
11P board to board extension jig cable	GGD1482	Diagonosis
13P board to board extension jig cable	GGD1483	Diagonosis
15P board to board extension jig cable	GGD1484	Diagonosis
21P board to board extension jig cable	GGD1485	Diagonosis
RS-232C I/F jig	GGF1348	Update the Flash ROMS
7-pin FFC	VDA1681	Update the Flash ROMS

■ CLEANING

Before shipping out the product, be sure to clean the following positions by using the prescribed cleaning tools:

Position to be cleaned	Cleaning tools
Fans	Cleaning paper : GED-008